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PHOTOGRAPHIC INTERPRETATION REPORT

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SOUTHEAST ASIA
ACTIVITY REPORT

SELECTED PORTS,
TRANSSHIPMENT POINTS,
AND RIVER CRAFT FACILITIES
NORTH VIETNAM

NPIC/R-90/67
MAY 1967

WARNING

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NPIC/R-90/67

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MAY 1967

INTRODUCTION

This report is a summary of information, prepared by NPIC, on selected ports, transshipment points, and river craft building/repair facilities in North Vietnam. It supercedes NPIC/R-15/67, South East Asia Activity Report, Special Summary of Selected Ports, Transshipment Points, and River Craft Facilities, North Vietnam (CONFIDENTIAL/No Foreign Dissem [REDACTED]). With the exception of Hai Phong, Hon Gai, and Cam Pha ports, all facilities in this report are associated with river traffic and are representative of the many sizes and functions of such installations. The information has been developed over a length of time and will be periodically updated as changes occur and better photography of these installations or newly identified facilities becomes available.

The report is divided into four sections with small-scale locator maps and a table of contents at the beginning of each of the first three sections.

Section A. Ship Repair/Building Yards. This section contains examples of ship and river craft building/repair facilities.

Section B. Ports/Transshipment Points. This section contains examples of ports and transshipment points.

Section C. Hai Phong Port Area. This section consists of a detailed study of Hai Phong, the most important seaport in North Vietnam, and includes the various ship building and repair yards within the Hai Phong area.

Section D. Miscellaneous. This Section contains miscellaneous items of interest which do not fit into any of the other three sections--transient targets and examples of vessels, including many of the small vessel types not usually reported in other publications, will be included in this part of the publication.

A 1:50,000 map, from the AMS Series L7014 charts, and a photo are provided for each item, as appropriate. The geographic coordinates used in the report are taken from the same charts and may differ slightly from those listed in the Basic Encyclopedia (BE). All installations reported are indexed by geographic coordinates in ascending order at the end of the report. Mensuration in the third section is considered to be accurate to [REDACTED]

No attempt has been made in this report to show the numerous POL shipping and receiving points in North Vietnam, as these facilities are reported in other publications.

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BACKGROUND

The low, alluvial plain of the Red River delta with its slow winding rivers and intricate canal system is of major importance to North Vietnam. Most of the industry of the country and the majority of the people are here -- it is to this area that supplies from the Communist Bloc nations are shipped.

The principal ports of North Vietnam, Hai Phong, Hon Gai, and Cam Pha, were built by the French. They were improved, after the French left in 1954, by the North Vietnamese aided by the Communist Bloc countries. Hai Phong is primarily a receiving port where incoming goods are transshipped from large, deep-draft, foreign vessels to warehouses or open storage areas within the city and in outlying areas. Hon Gai and Cam Pha are coal shipping ports where smaller foreign ships and cargo barges load coal from nearby mines.

Many of the transshipment points in North Vietnam, such as Port Redon Coastal Transshipment Point (Page B13), have also been improved since the departure of the French. Others, like Loi Dong Transshipment Point, Cua Cam (Page B45), have been built since [REDACTED]

The transshipment points vary in importance. Loi Dong is a large river port which, when completed, will greatly enhance the cargo handling capacity of the Hai Phong area. The smaller dispersed transshipment points are also important. Khe Bo Transshipment Point, Song Ca (Page B41), is a small facility where hundreds of metric tons of supplies could easily be loaded onto waiting trucks and sent into Laos via Route 7.

The dispersal of transshipment points throughout central North Vietnam primarily reflects current specific needs; however, these facilities could be used as alternates to the maritime ports, through the use of lighters, and make disruption of shipping to North Vietnam difficult.

Construction and repair of the many small river craft and coastal cargo vessels is carried out at shipyards throughout the country. These facilities range in size from Hai Phong Shipyard No. 4 Dancette (Page C5) to small repair yards such as Yen Phuc Barge Yard (Page A37). An increase in the small construction yards such as Phap Co Shipyard (Page A23), where pre-fabricated vessel sections are assembled, has been observed, suggesting a planned increase in barge/lighter activity.

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SECTION A SHIP REPAIR/BUILDING YARDS

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6		Thuong Tra Boat Yard	A11
7		Ha Chieu Boat Yard, Song Ha	A13
8		Ha Chieu Boat Repair Yard	A15
9		Uong Bi Boat Yard, Thai Khe	A17
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25		Xom Trai Boat Building Yard	A49
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31		Kim Son Shipyard	A61
32		Lang Lau Barge Construction Yard	A63

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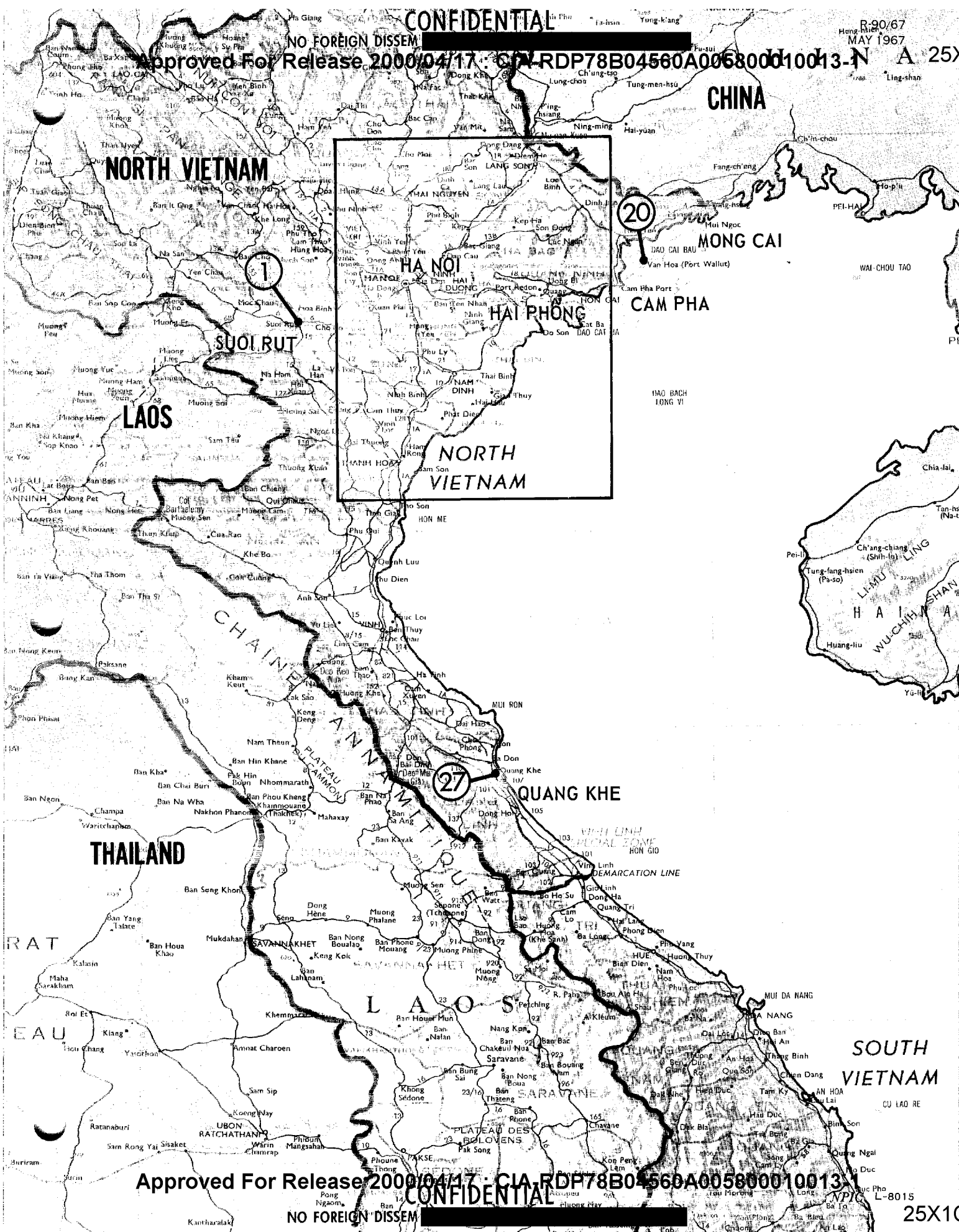
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NORTH VIETNAM

HAI PHONG

HON GAY

NAM DINH

THANH HOA

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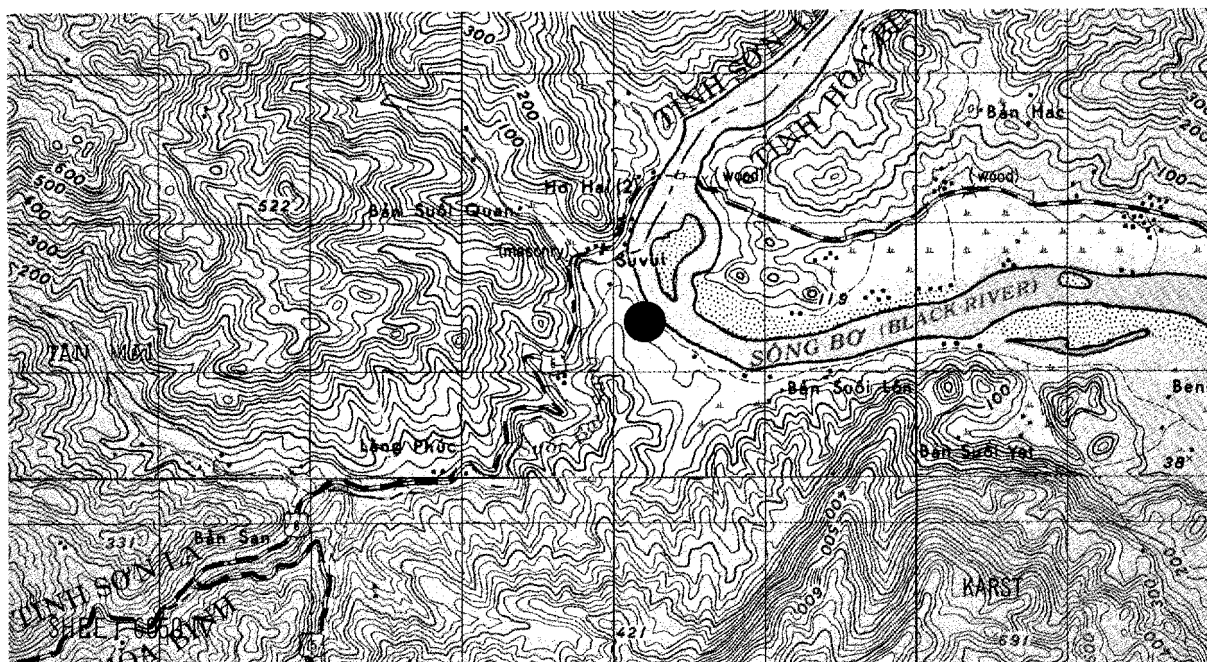
NAME: SUOI RUT BOAT REPAIR FACILITY

LOCATION: ON THE WEST BANK OF THE SONG BO (BLACK RIVER), 0.3 NM SSE OF SU VUI

DESCRIPTION: FACILITY CONSISTS OF A DOUBLE-TRACK MARINE RAILWAY AND SEVERAL SMALL SUPPORT BUILDINGS. TWO POSSIBLY ASSOCIATED AREAS ARE UNDER DEVELOPMENT ADJACENT TO THE FACILITY. THE FIRST CONTAINS AN EXCAVATION OF A TYPE FOR A BUILDING FOUNDATION; THE SECOND HAS BEEN LEVELED AND A CUT MADE IN A HILLSIDE FOR A NEW MOTORABLE ROAD EXTENDING TO ROUTE 6.

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PHOTO REFERENCES:

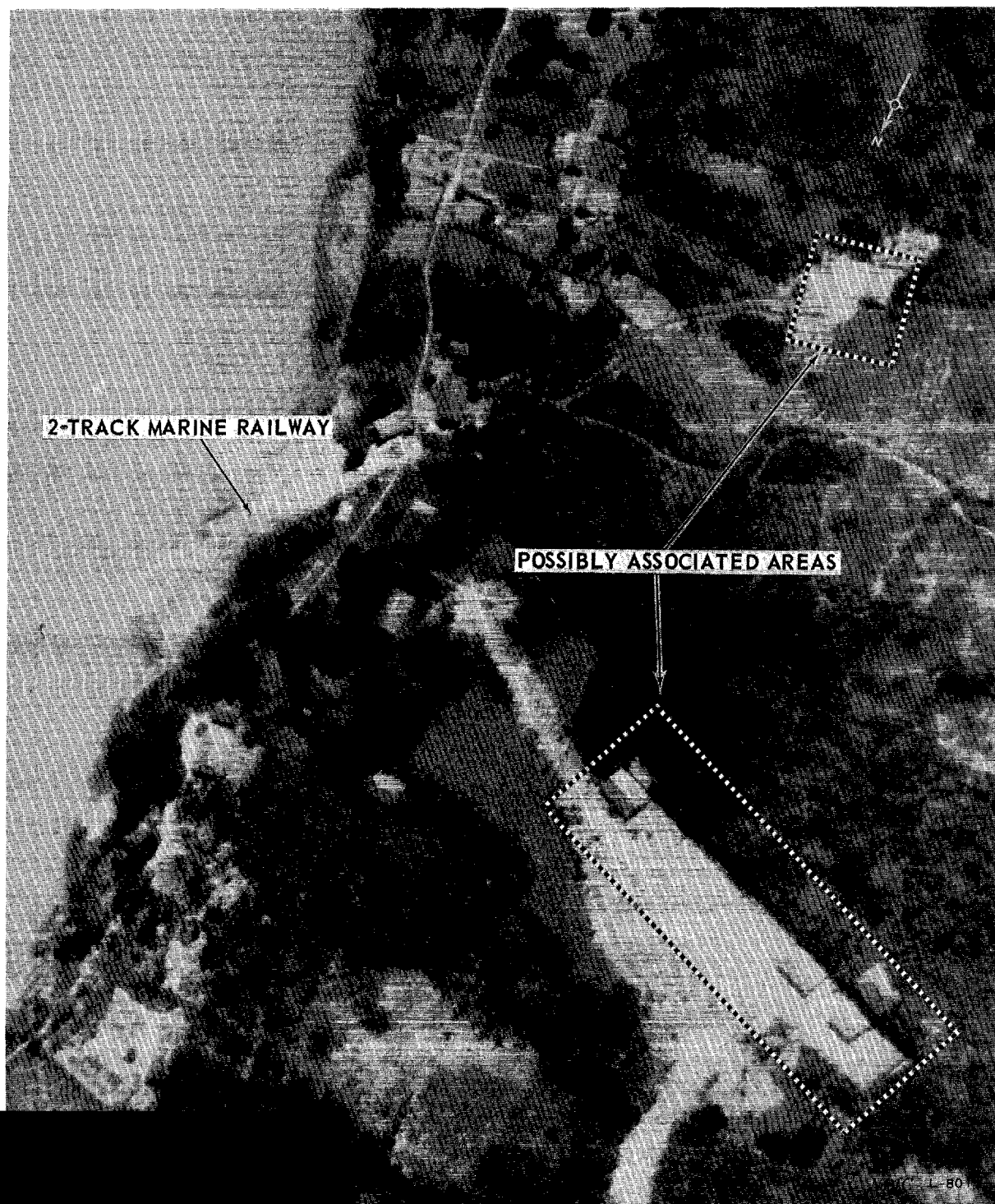


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SUOI RUT BOAT REPAIR FACILITY ,NORTH VIETNAM

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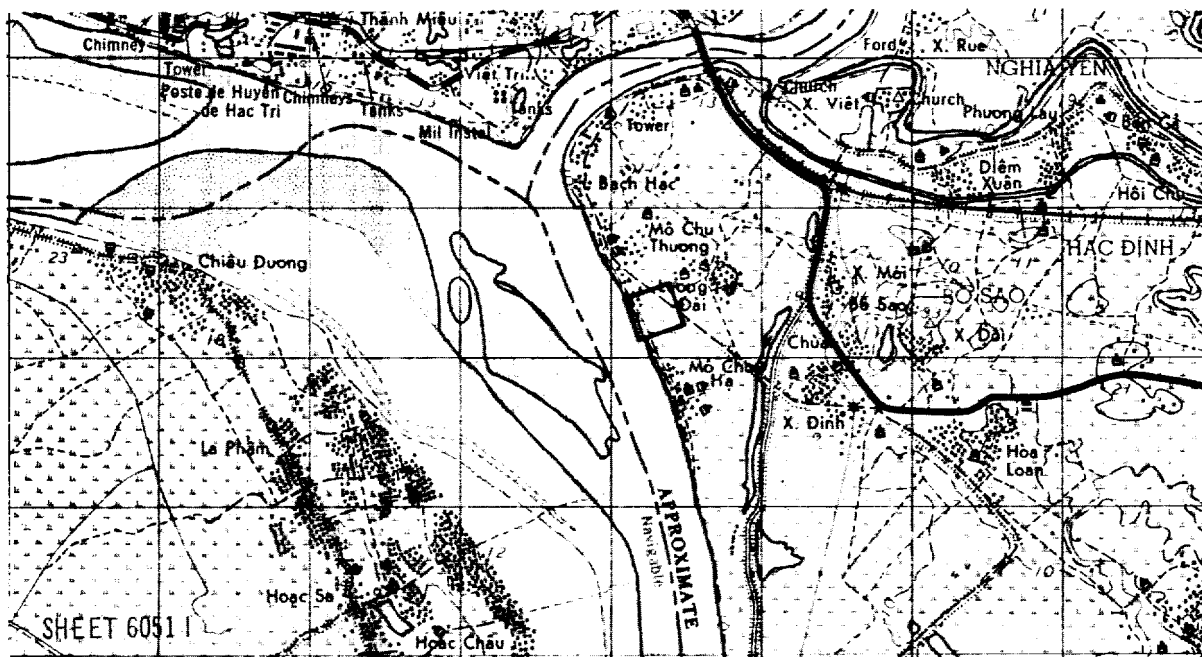
NAME: HOA LOAN BOAT YARD

LOCATION: ON THE RED RIVER, 0.3 NM NNW OF MO CHU HA

DESCRIPTION: SECURED BOAT YARD CONSISTS OF A MARINE RAILWAY AND 27 BUILDINGS, INCLUDING A COVERED WINCH HOUSE, SEVERAL PROBABLE SHOPS, AND 4 PROBABLE BARRACKS.

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PHOTO REFERENCES:

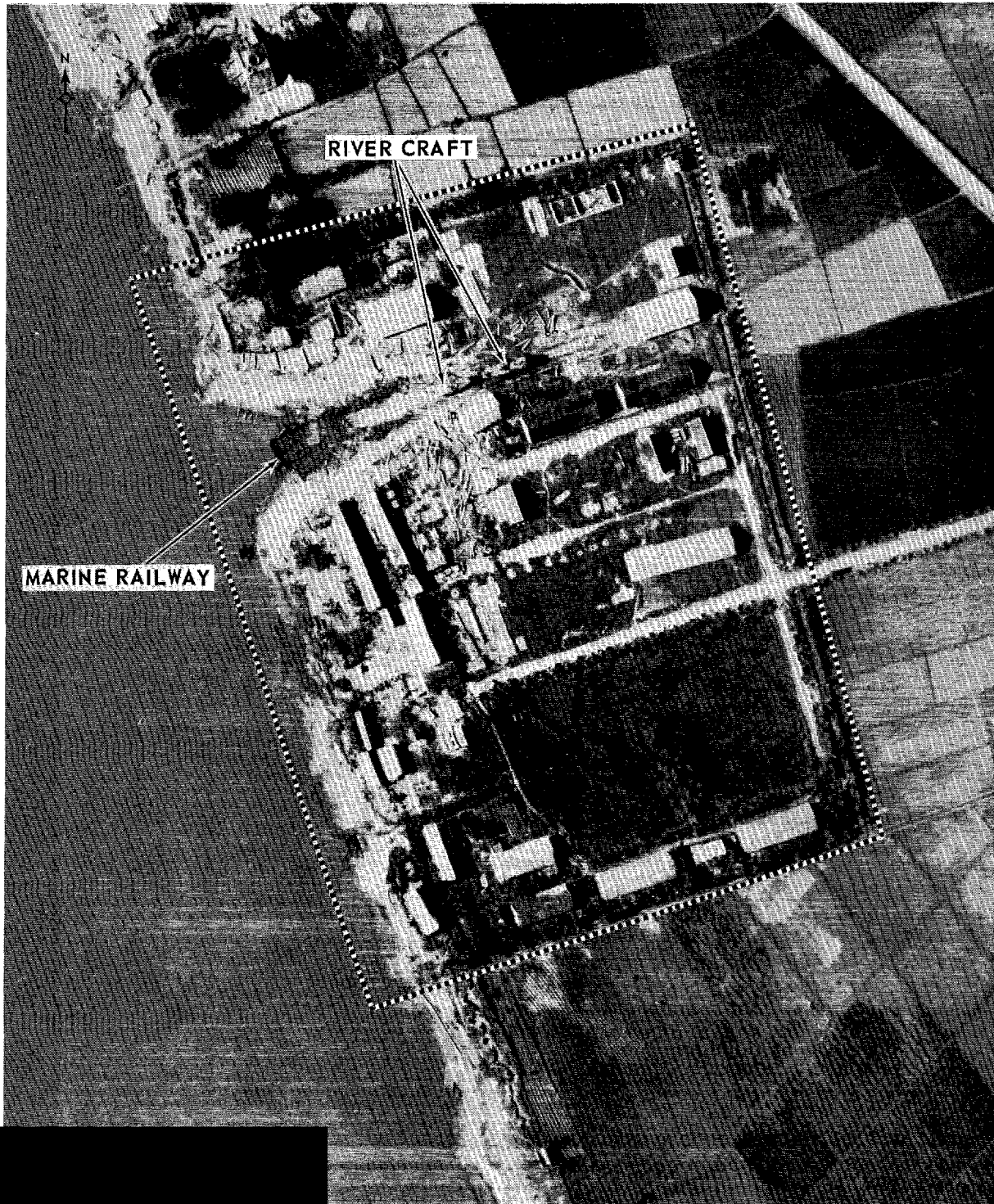


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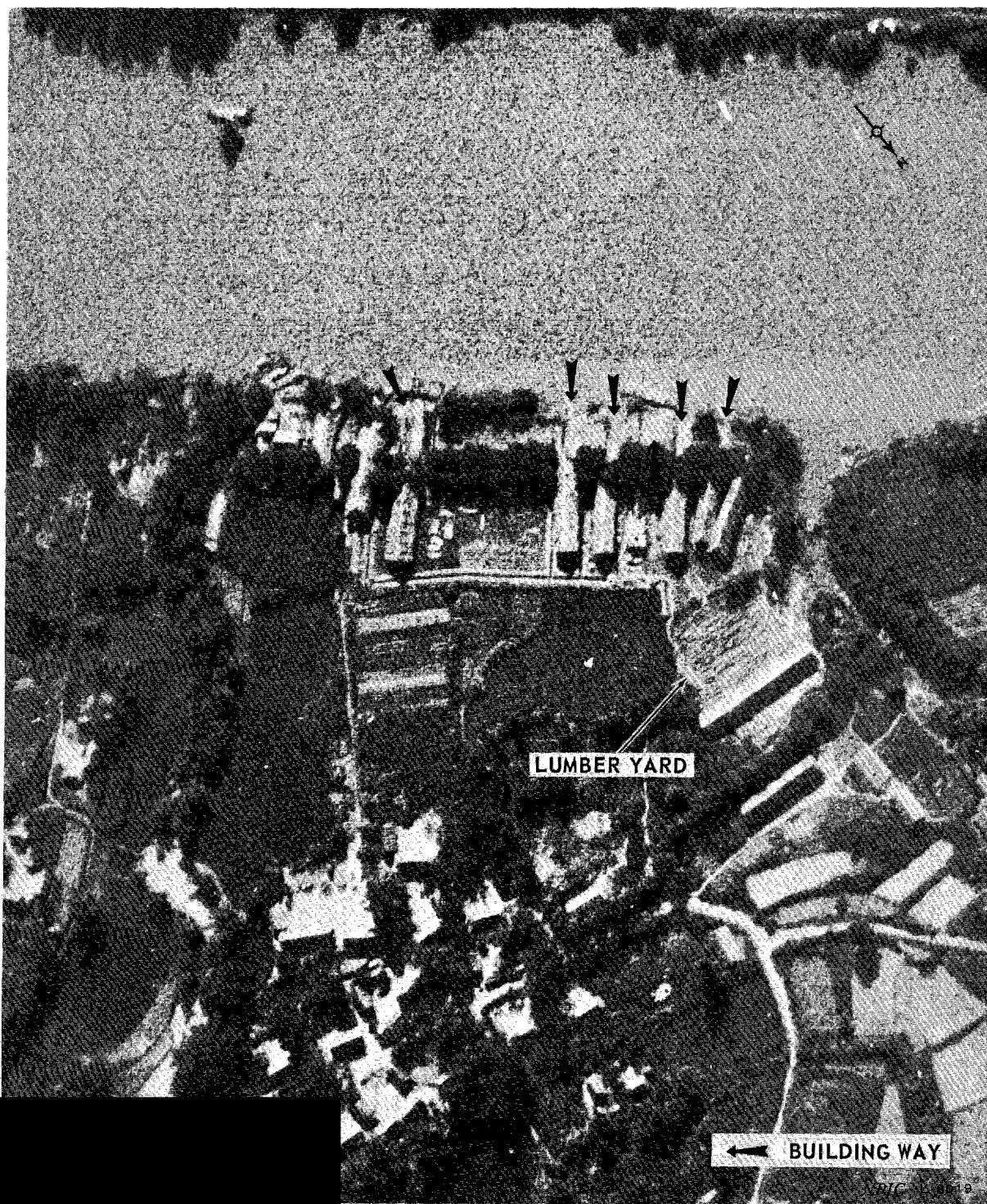
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HOA LOAN BOAT YARD, NORTH VIETNAM

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TIENT NHA BOAT YARD, NORTH VIETNAM

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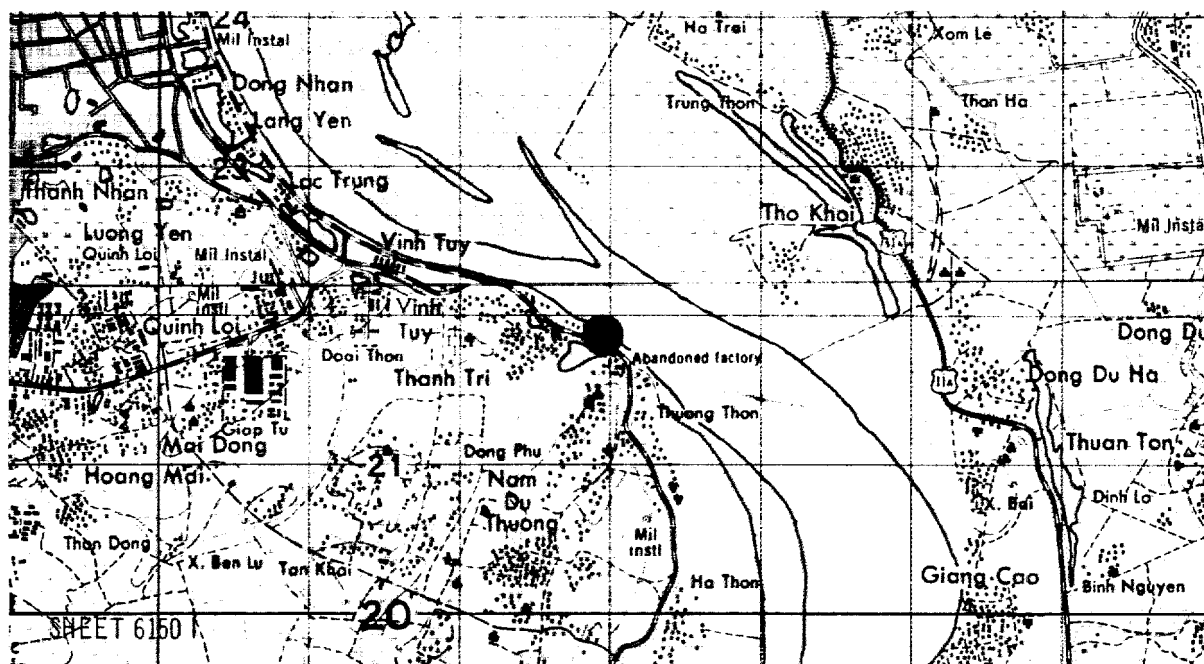
NAME: HA NOI SHIPYARD, THANH TRI

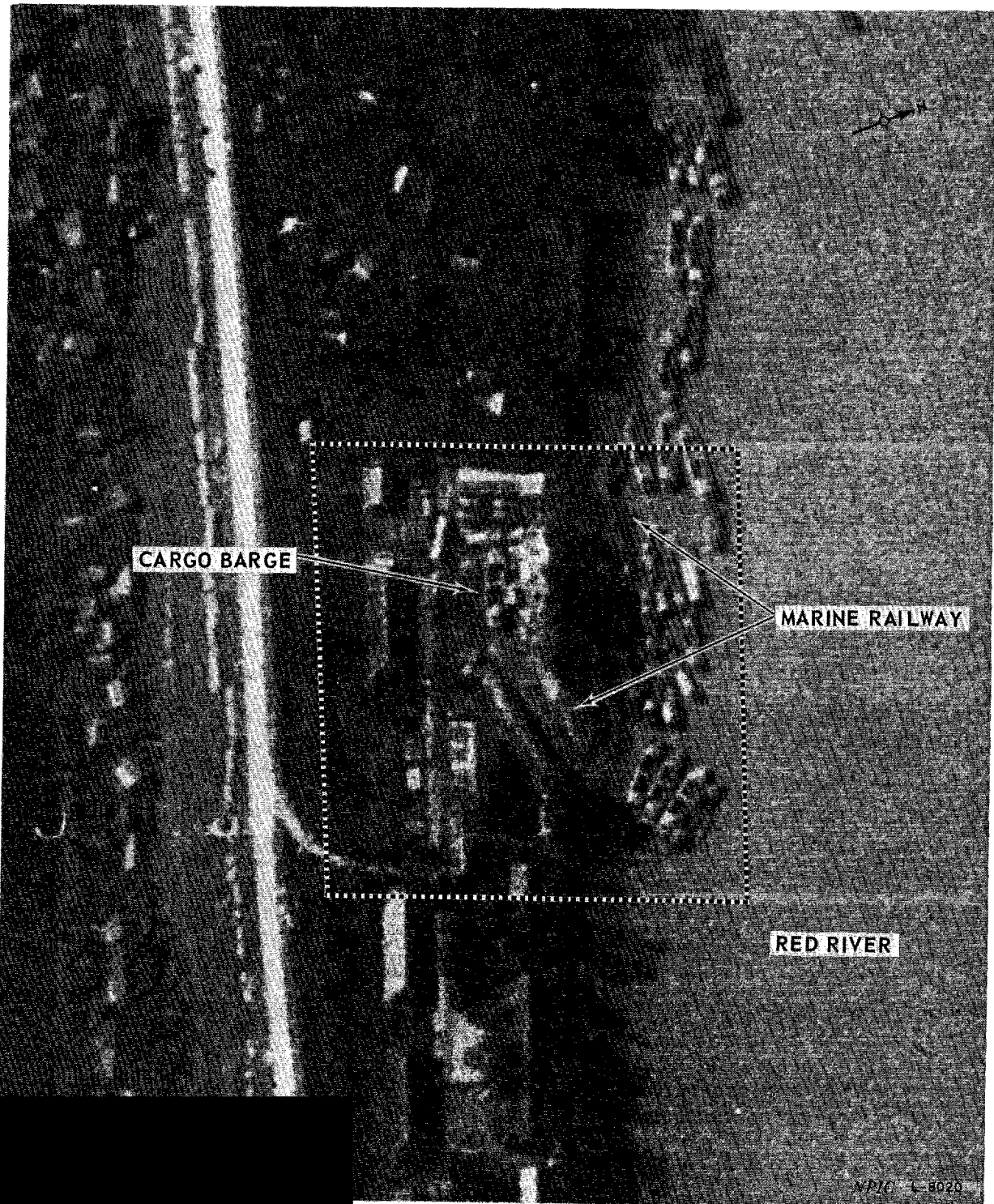
LOCATION: ON THE WEST BANK OF THE RED RIVER

DESCRIPTION: PRIMARILY A RIVER CRAFT BUILDING/REPAIR FACILITY, THE YARD
CONSISTS OF 2 MARINE RAILWAYS AND AT LEAST 5 ASSOCIATED BUILDINGS. PHOTOGRA-
PHY OF [REDACTED] REVEALED 2 SMALL RIVER CRAFT AND A LARGE CARGO BARGE ON THE
RAILWAYS, AND NUMEROUS BARGES AND RIVER CRAFT MOORED ALONG THE BANK.

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25X1D PHOTO REFERENCES:





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HA NOI SHIPYARD, THANH TRI ,NORTH VIETNAM

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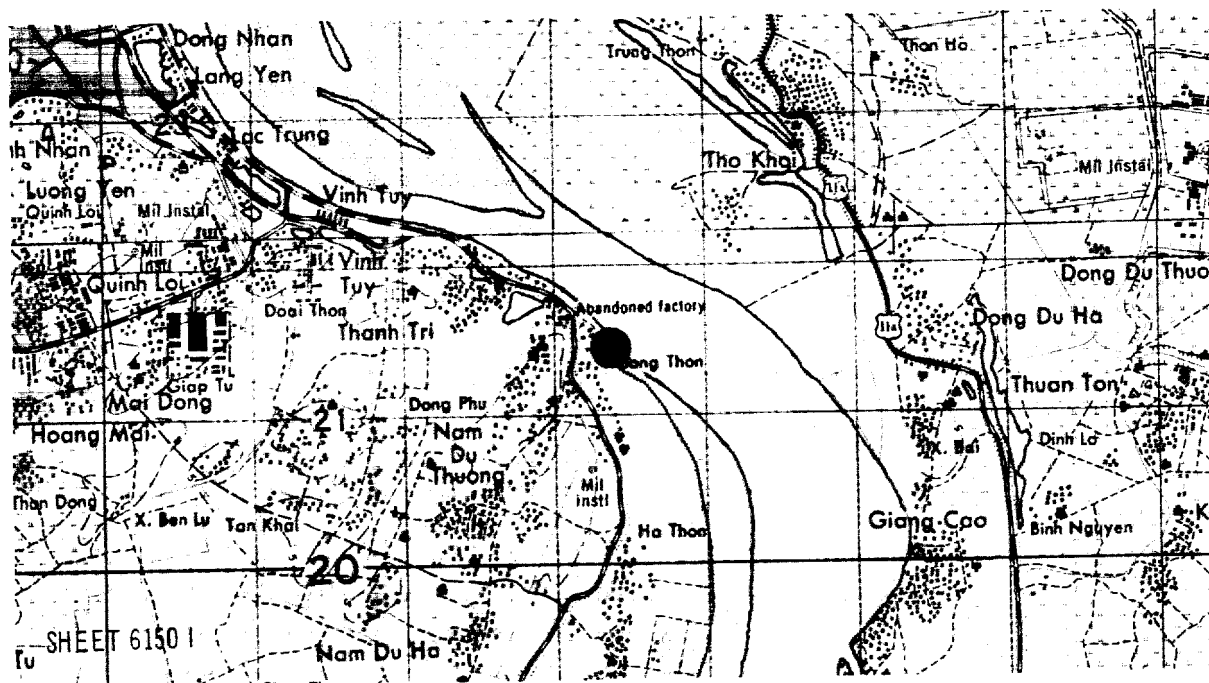
NAME: HA NOI SHIPYARD, THUONG THON

LOCATION: ON THE RED RIVER IN THUONG THON, 2.2 NM SE OF HA NOI

DESCRIPTION: BOAT BUILDING FACILITY CONSISTS OF 6 COVERED BUILDING WAYS,
2 MARINE RAILWAYS, AND 19 SUPPORT BUILDINGS. THE YARD IS POSSIBLY PRODUCING
CARGO BARGES OF THE TYPE SHOWN ALONG THE RIVER BANK IN ACCOMPANYING PHOTO.

PHOTO REFERENCES:

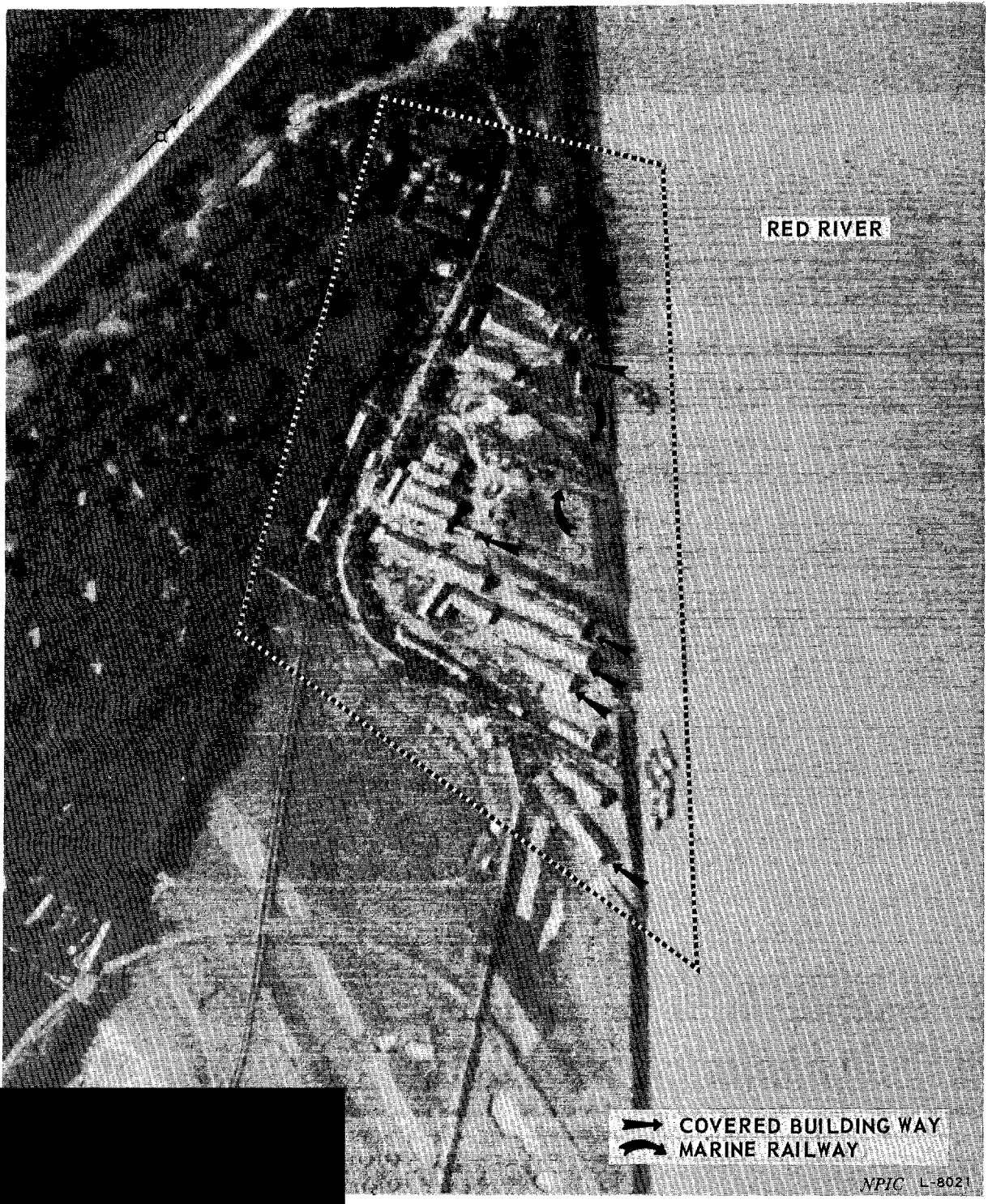
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HA NOI SHIPYARD, THUAN THON, NORTH VIETNAM

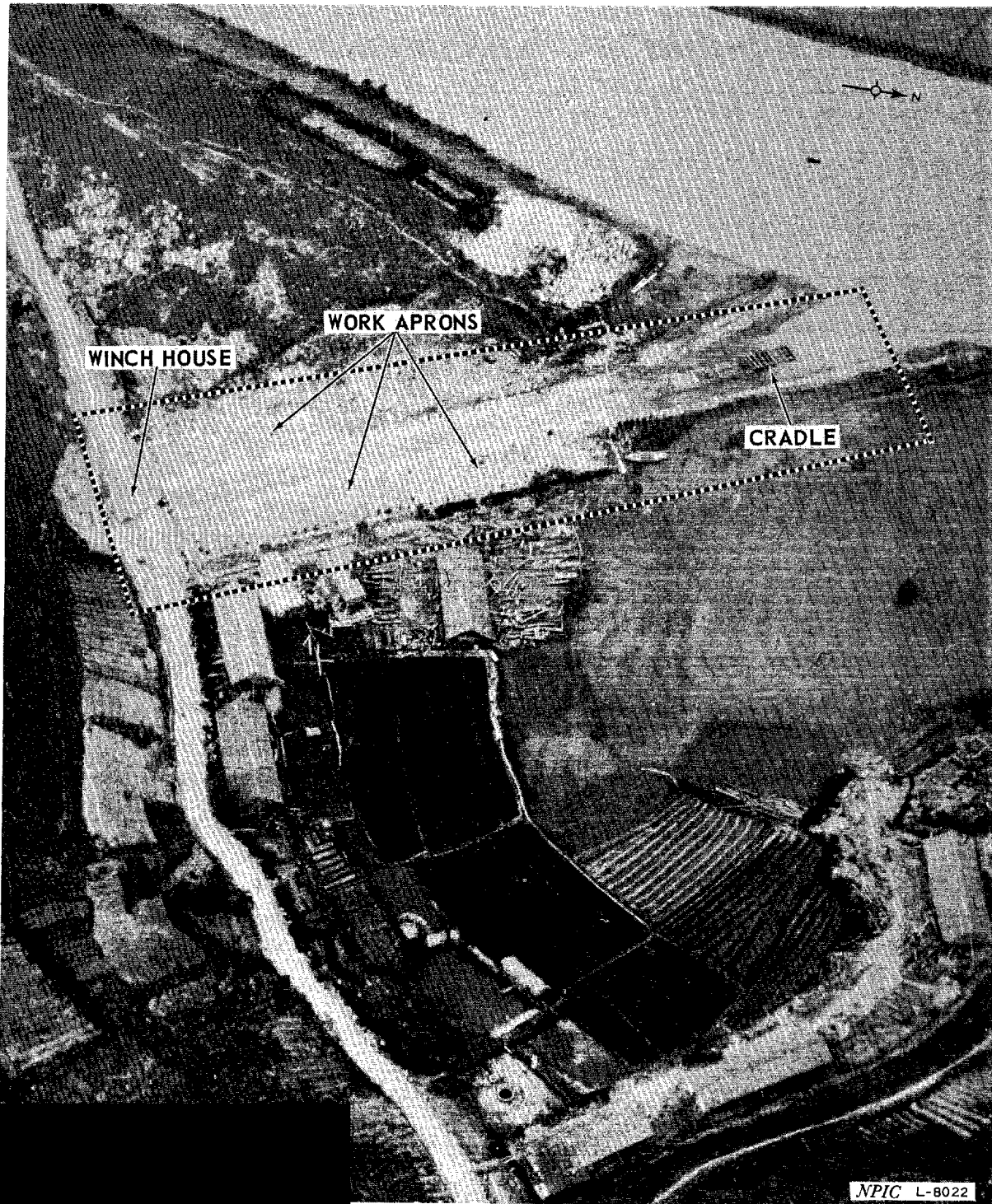
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THUONG TRA BOAT YARD, NORTH VIETNAM

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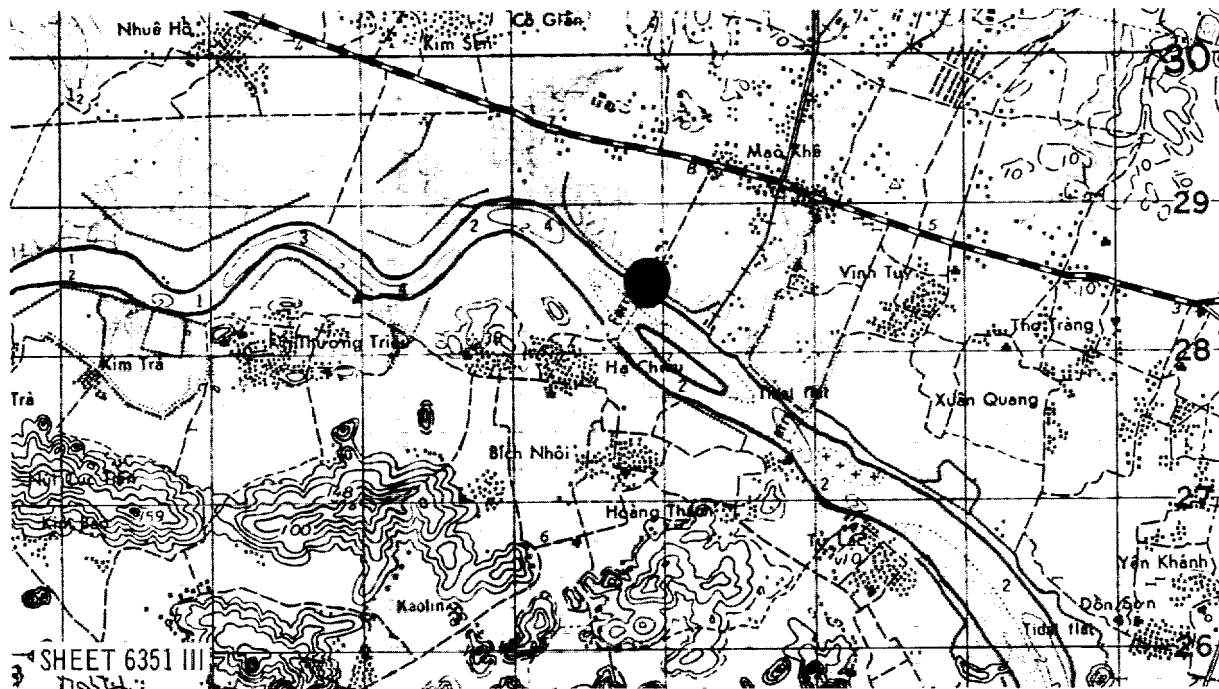
NAME: HA CHIEU BOAT YARD, SONG HA

LOCATION: ON THE NORTH BANK OF THE SONG HA (RIVER), 0.5 NM NE OF HA CHIEU

DESCRIPTION: AREA CONSISTS OF 5 SUPPORT BUILDINGS AND A GRAVING DOCK
CAPABLE OF HOLDING 2 CARGO BARGES.

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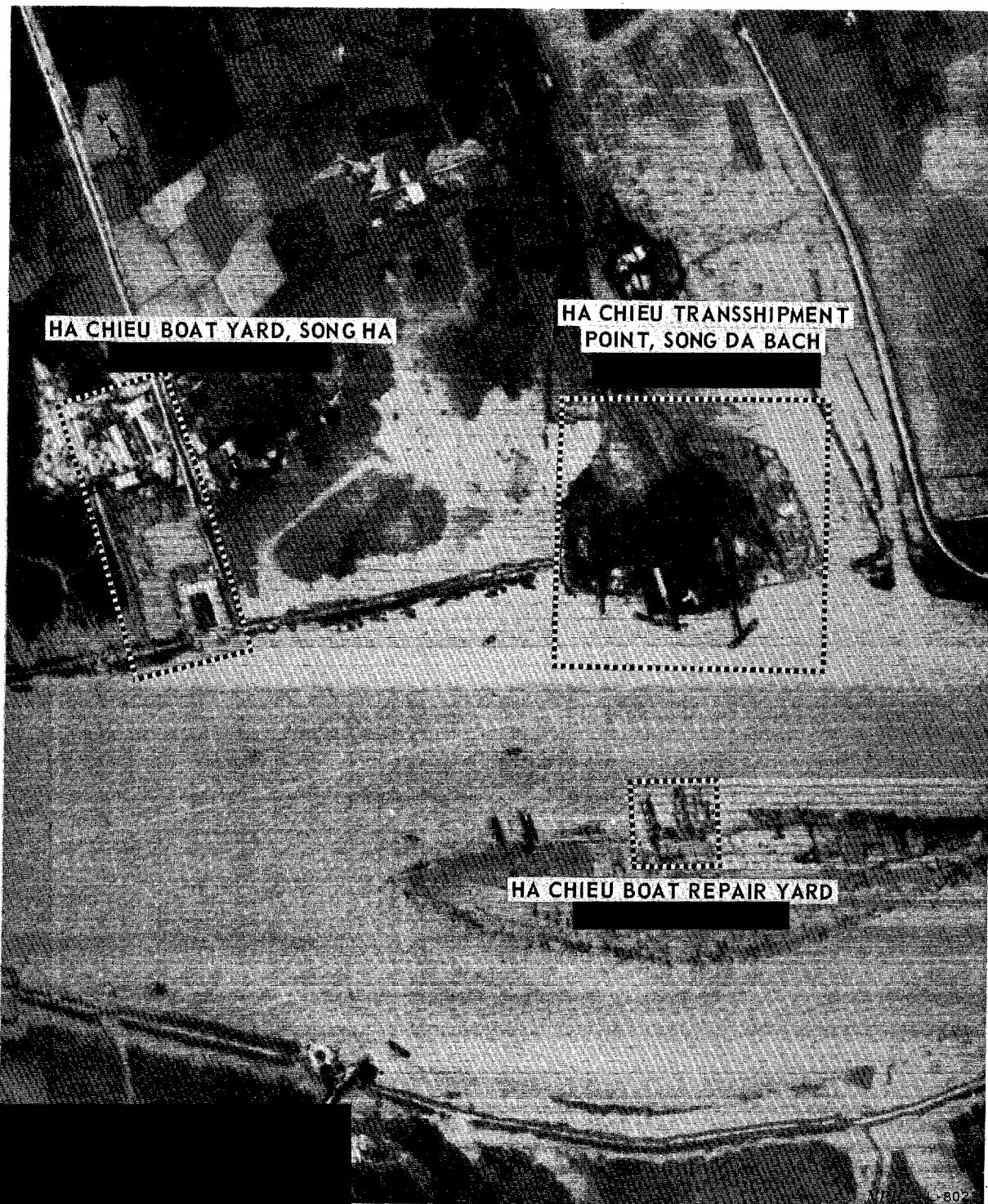
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HA CHIEU BOAT YARD, SONG HA, NORTH VIETNAM

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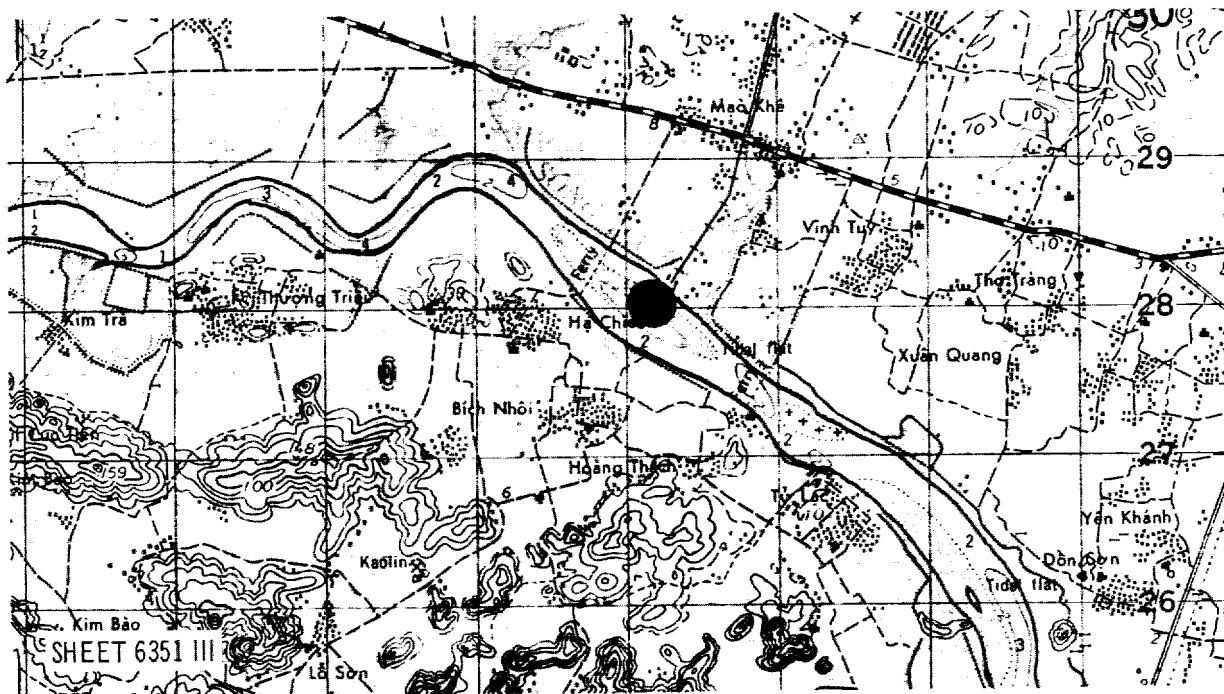
NAME: HA CHIEU BOAT REPAIR YARD

LOCATION: ON THE SOUTH BANK OF THE SONG HA (RIVER), 0.5 NM NE OF HA CHIEU

DESCRIPTION: AREA CONSISTS OF AT LEAST 5 SUPPORT BUILDINGS, A MOORING SLIP, AND A GRAVING DOCK CAPABLE OF HOLDING 2 CARGO BARGES.

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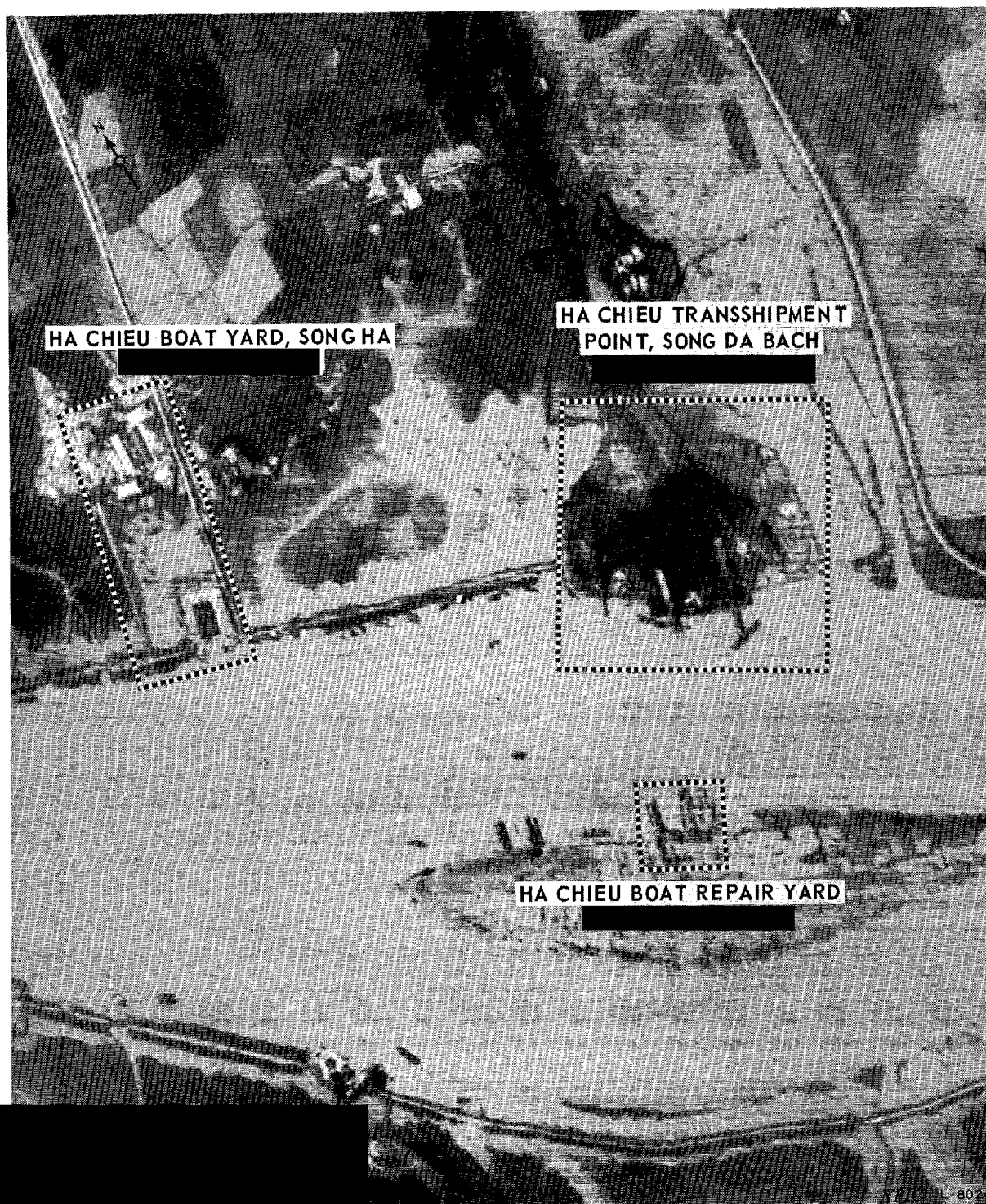
PHOTO REFERENCES: [REDACTED]



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HA CHIEU BOAT REPAIR YARD, NORTH VIETNAM

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GEOGRAPHIC COORDINATES

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NAME: UONG BI BOAT YARD, THAI KHE

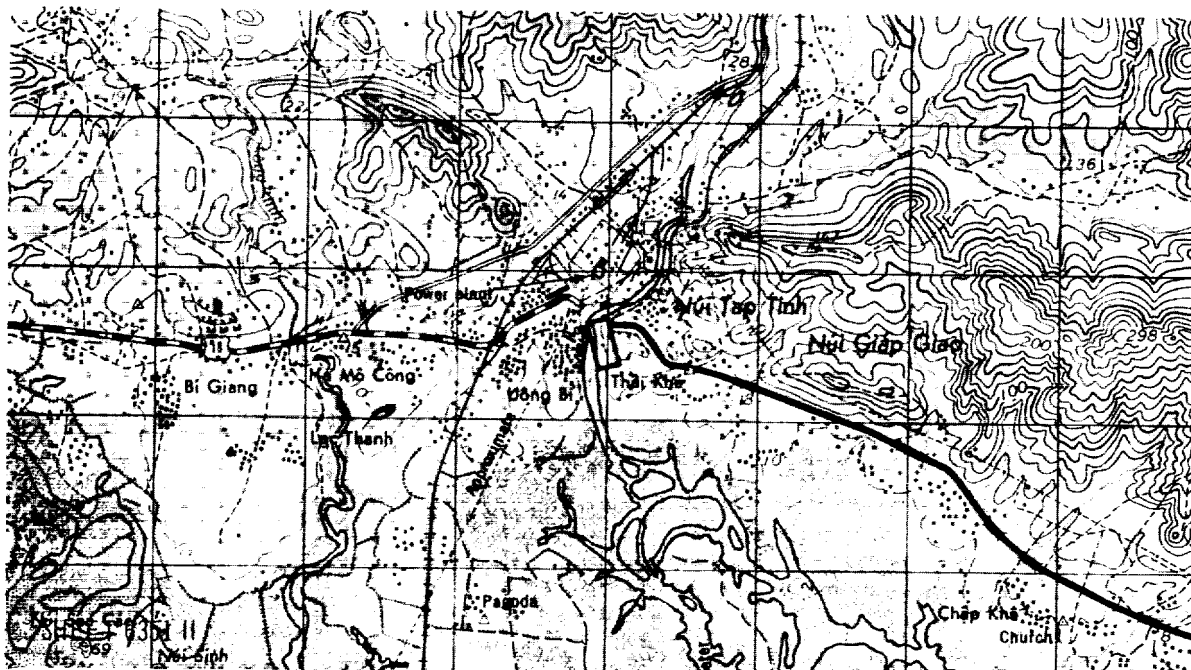
LOCATION: ON THE SONG THAI KHE (RIVER), 0.3 NM NW OF THAI KHE, 12.4 NM NE OF HAI PHONG

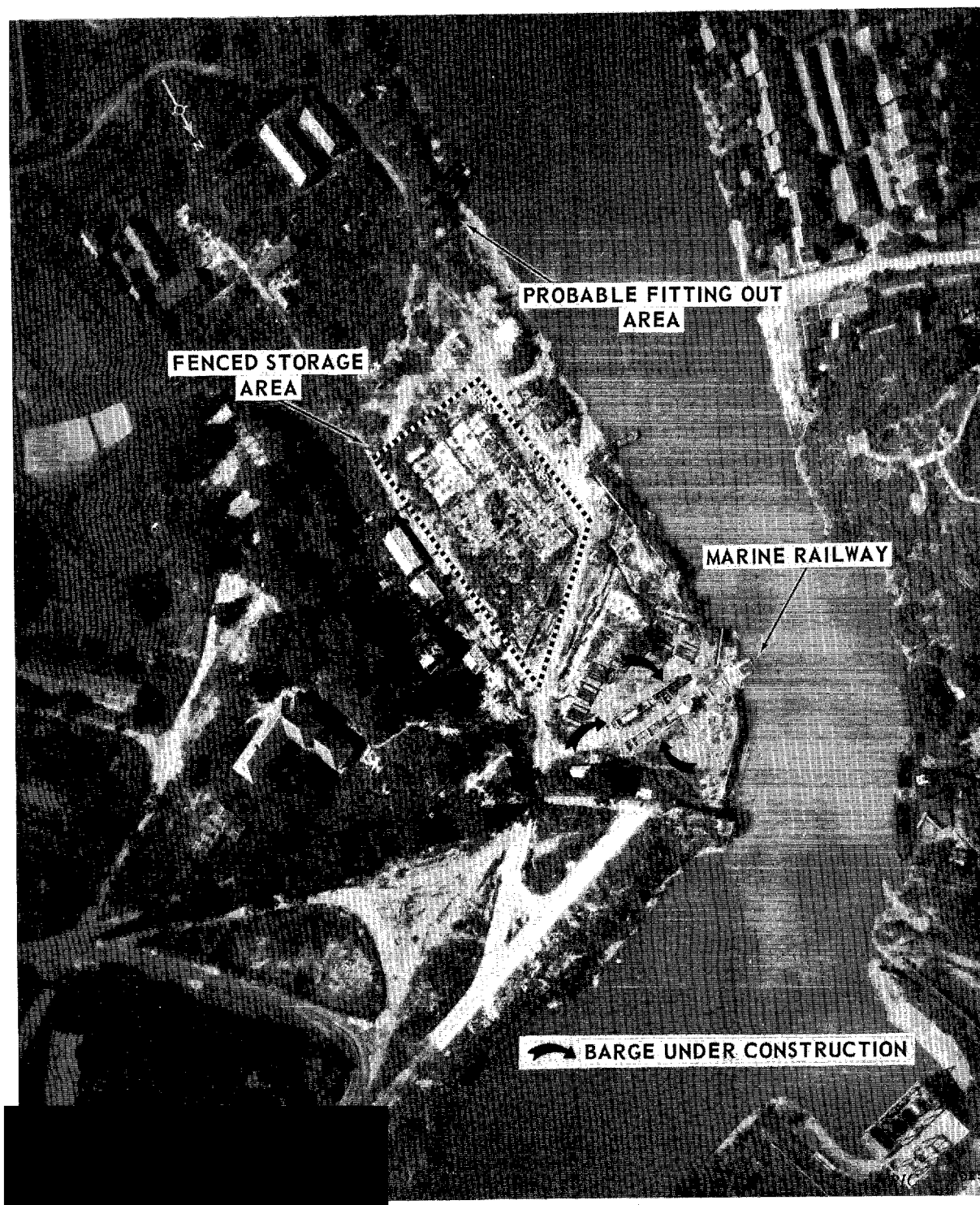
DESCRIPTION: SECURED AREA, UTILIZED AS A BARGE BUILDING YARD, CONSISTS OF 1 MARINE RAILWAY, A PROBABLE FITTING OUT AREA, 7 SUPPORT BUILDINGS, AND A FENCED STORAGE AREA. PHOTOGRAPHY OF [REDACTED] REVEALS 3 BARGES (1 PARTIALLY CANVAS-COVERED) UNDER CONSTRUCTION OR REPAIR, 5 BARGES MOORED ALONG THE SONG THAI KHE, AND CAMOUFLAGED MATERIALS, APPARENTLY SHEETS OF STEEL, IN THE STORAGE AREA.

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PHOTO REFERENCES: [REDACTED]

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UONG BI BOAT YARD, THAI KHE, NORTH VIETNAM

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NAME: YEN CUONG BOAT YARD

LOCATION: ON THE WEST BANK OF THE SONG HAN (RIVER), 1.3 NM SE OF YEN CUONG

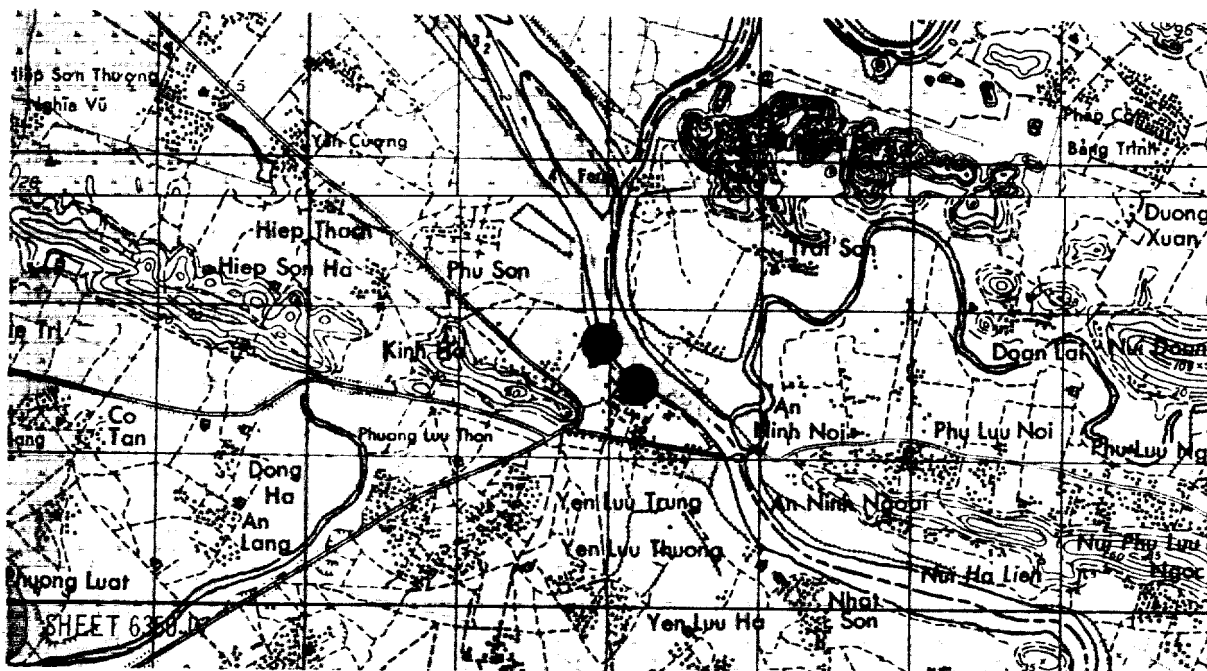
DESCRIPTION: FACILITY IS COMPRISED OF 2 BOAT BUILDING/ REPAIR YARDS (AREAS A AND B ON PHOTO). AREA A, AT UTM [REDACTED], CONSISTS OF A GRAVING DOCK, A LAUNCHING BASIN, AND A FITTING OUT AREA. AREA B, AT [REDACTED] CONSISTS OF A PROBABLE MARINE RAILWAY AND A BOAT BASIN.

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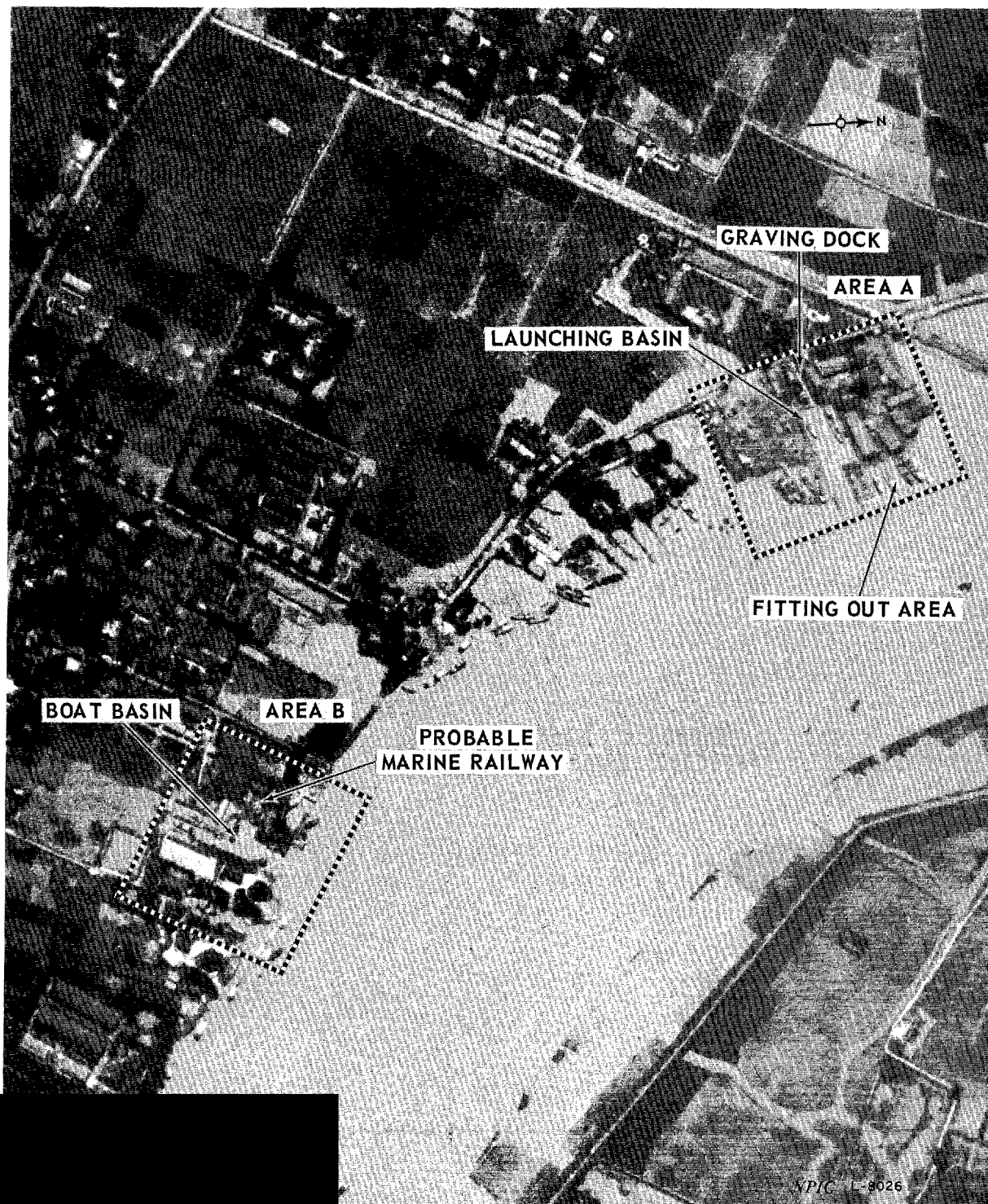
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PHOTO REFERENCES: [REDACTED]



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YEN CUONG BOAT YARD, NORTH VIETNAM

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205904N 1063406E
GEOGRAPHIC COORDINATES

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NAME: AN NINH NOI SHIPYARD

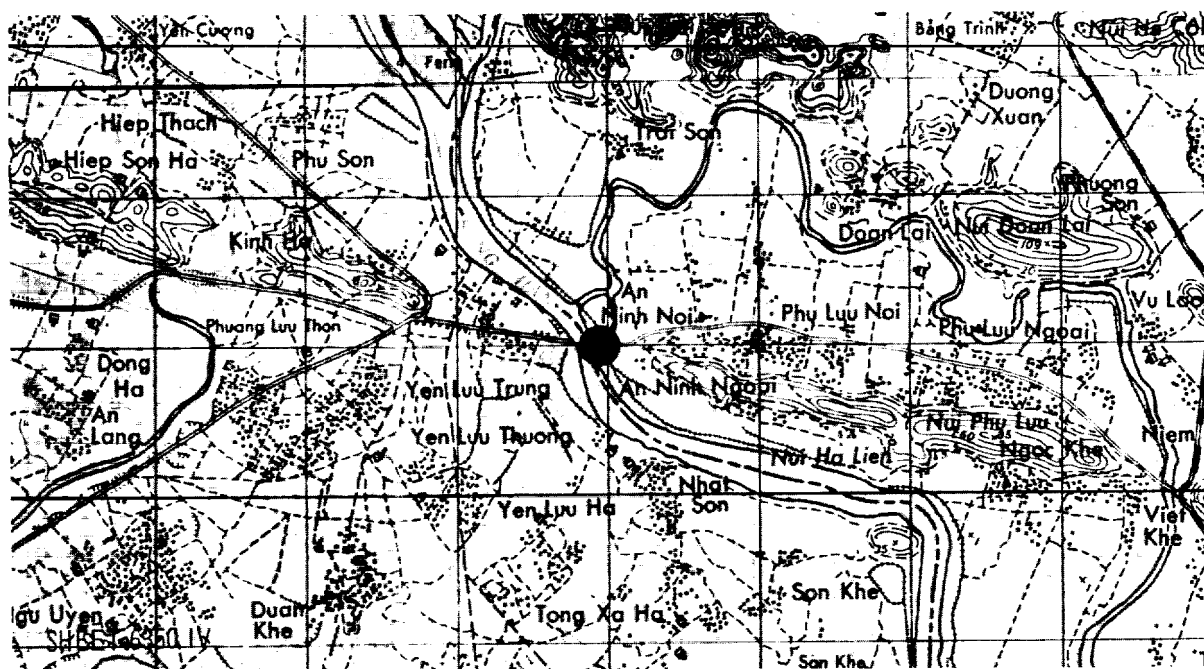
LOCATION: NW EDGE OF AN NINH NOI, 10.1 NM NW OF HAI PHONG, ON THE EAST BANK OF THE SONG HAN (RIVER)

DESCRIPTION: BUILDING AND REPAIR YARD FOR SMALL BARGES AND OTHER RIVER CRAFT CONSISTS OF 2 BUILDING WAYS, 1 MARINE RAILWAY, AND AT LEAST 14 ASSOCIATED BUILDINGS AND MACHINE SHOPS. AN UNNUMBERED ROAD EXTENDING FROM ROUTE 5, 3 NM WSW, SERVES THE AREA. PHOTOGRAPHY OF [REDACTED] REVEALS 3 BARGES IN THE YARD AREA, 2 PROBABLY SELF-PROPELLED BARGES AND 2 OTHER RIVER CRAFT IN THE RIVER, 2 RIVER CRAFT ON THE MARINE RAILWAY, AND 2 BARGES UNDER CONSTRUCTION.

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PHOTO REFERENCES: [REDACTED]



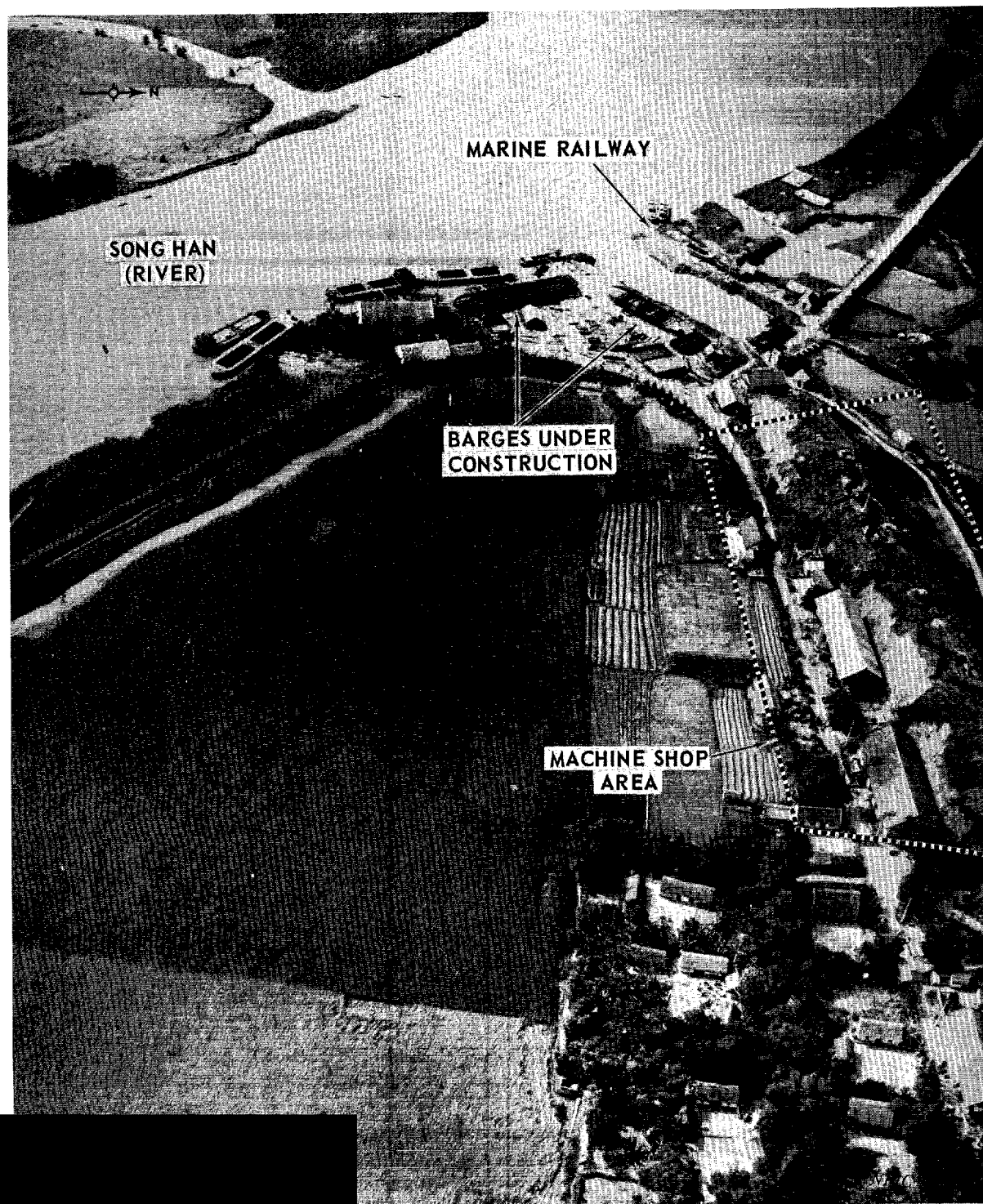
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GEOGRAPHIC COORDINATES

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NAME: PHAP CO SHIPYARD

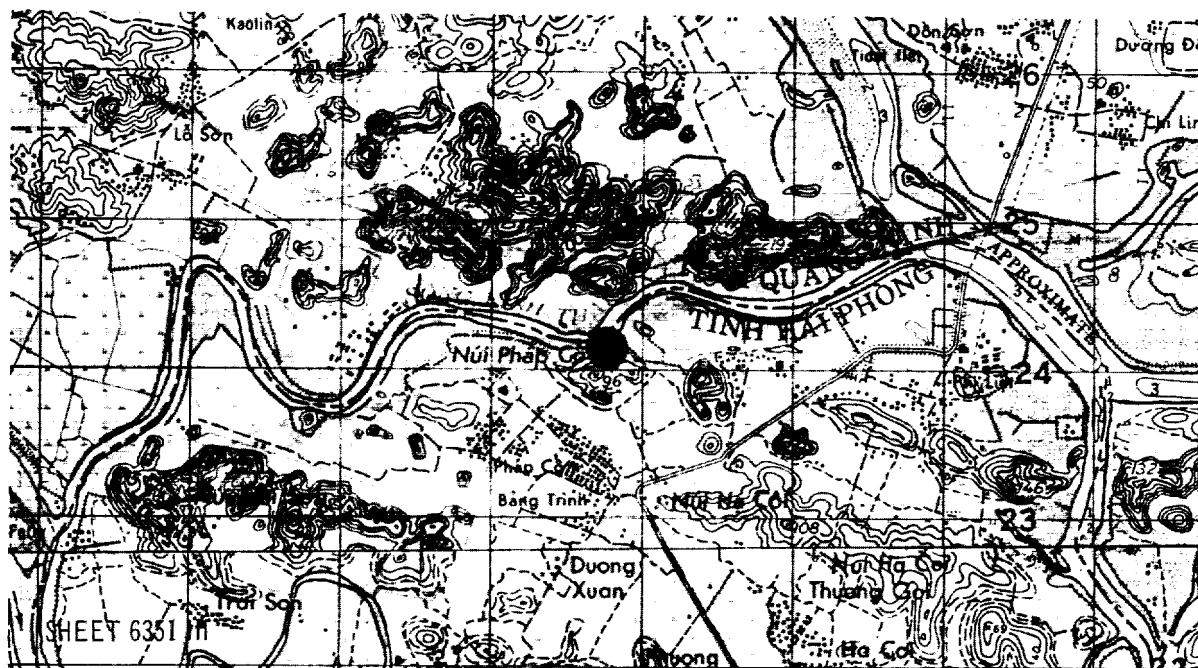
LOCATION: 0.4 NM NE OF PHAP CO, 10.7 NM NW OF HAI PHONG, ON THE SOUTH BANK OF THE SONG KINH THAI (RIVER)

DESCRIPTION: PRIMARILY A BARGE BUILDING FACILITY, THE YARD CONSISTS OF 1 SIDE-LAUNCHING BUILDING WAY, 6 SUPPORT BUILDINGS/SHOPS, AND 2 HOUSING UNITS. A POSSIBLY ASSOCIATED AREA IMMEDIATELY WEST CONTAINS 5 PROBABLE SUPPORT BUILDINGS AND 5 PROBABLE HOUSING UNITS. PHOTOGRAPHY OF [REDACTED] REVEALS 1 BARGE IN AN EARLY STAGE OF CONSTRUCTION AND 1 TRUCK-MOUNTED CRANE.

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PHOTO REFERENCES: [REDACTED]



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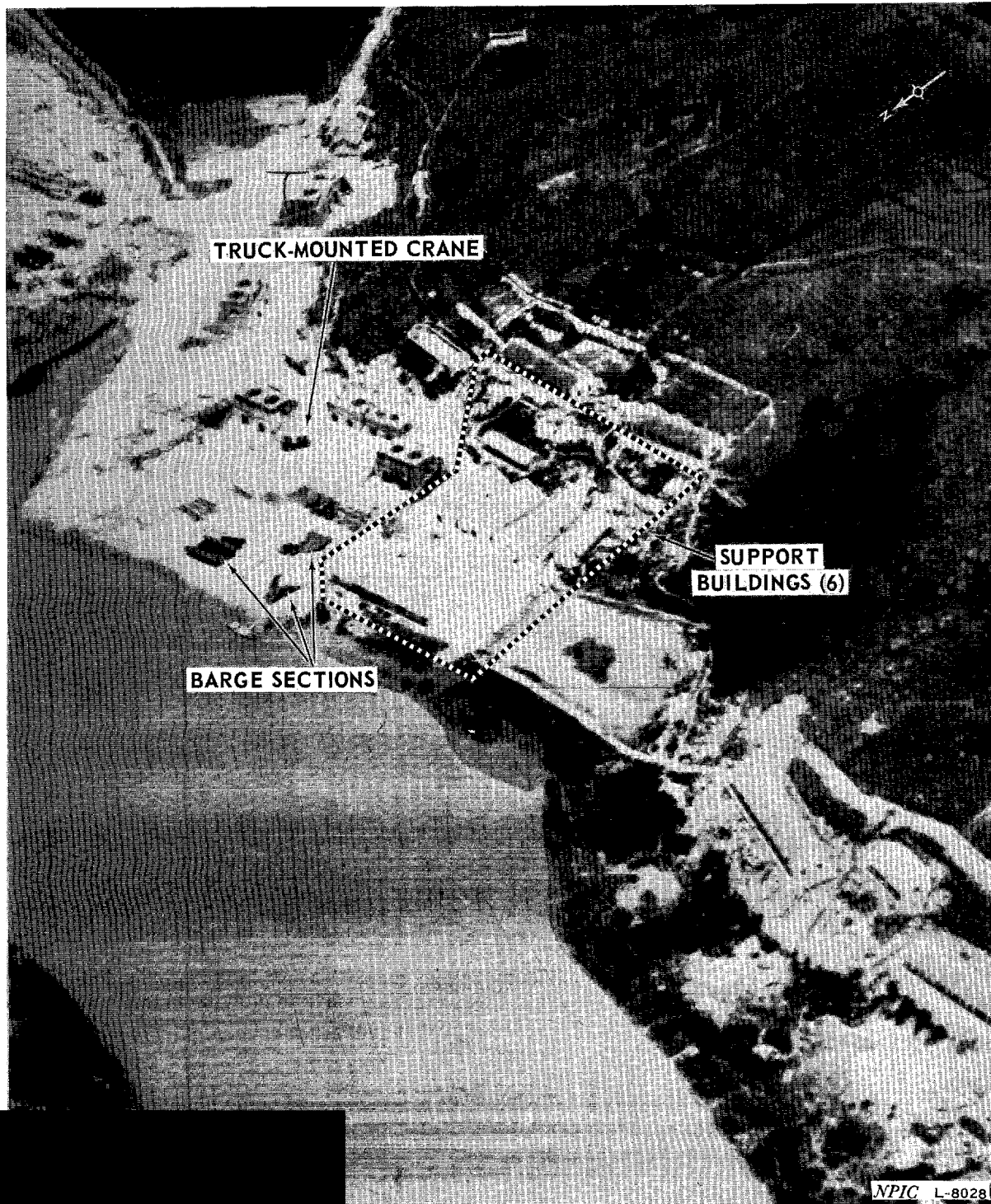
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PHAP CO SHIPYARD, NORTH VIETNAM

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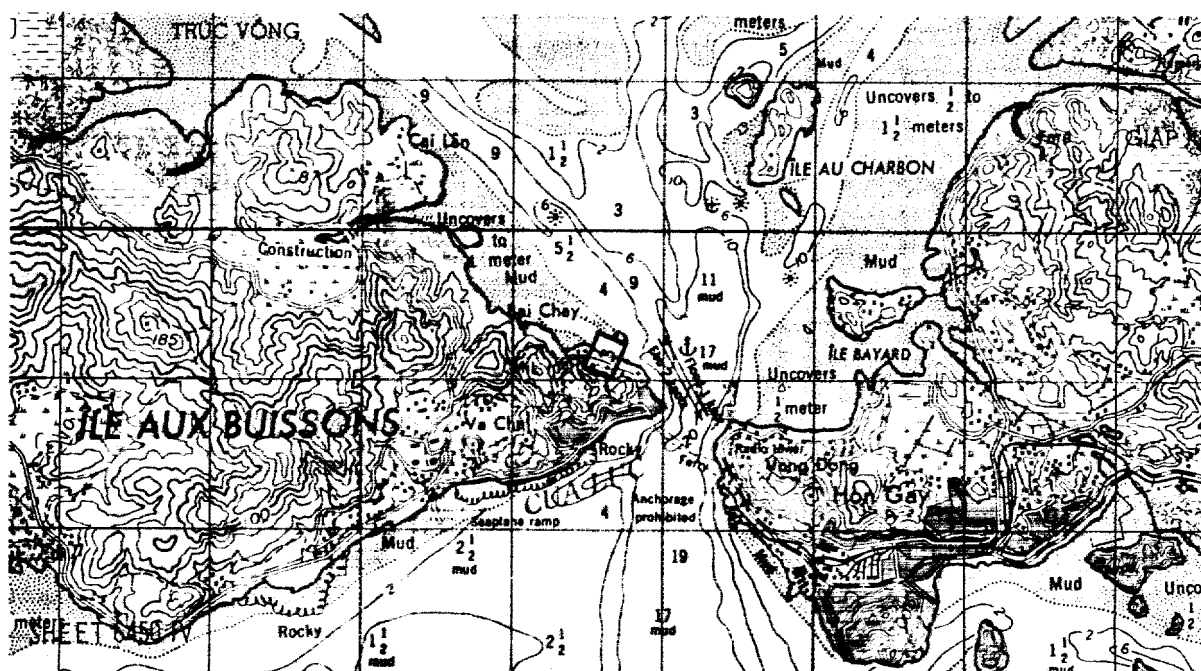
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NAME: HON GAI NAVAL BASE AND SHIPYARD, BAI CHAY

LOCATION: IN BAI CHAY, ON THE SOUTH SHORE OF HON GAI BAY

DESCRIPTION: AREA CONSISTS OF A MARINE RAILWAY WITH A TRANSVERSER SYSTEM CAPABLE OF ACCOMODATING 7 VESSELS ON CRADLES. THE YARD ALSO CONTAINS 9 BUILDINGS WITH MEDIUM-TO-HEAVY ROOF DAMAGE, A FUELING PIER, AND POL STORAGE TANKS.

PHOTO REFERENCES:



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HON GAI NAVAL BASE AND SHIPYARD, BAI CHAY, NORTH VIETNAM

25X10

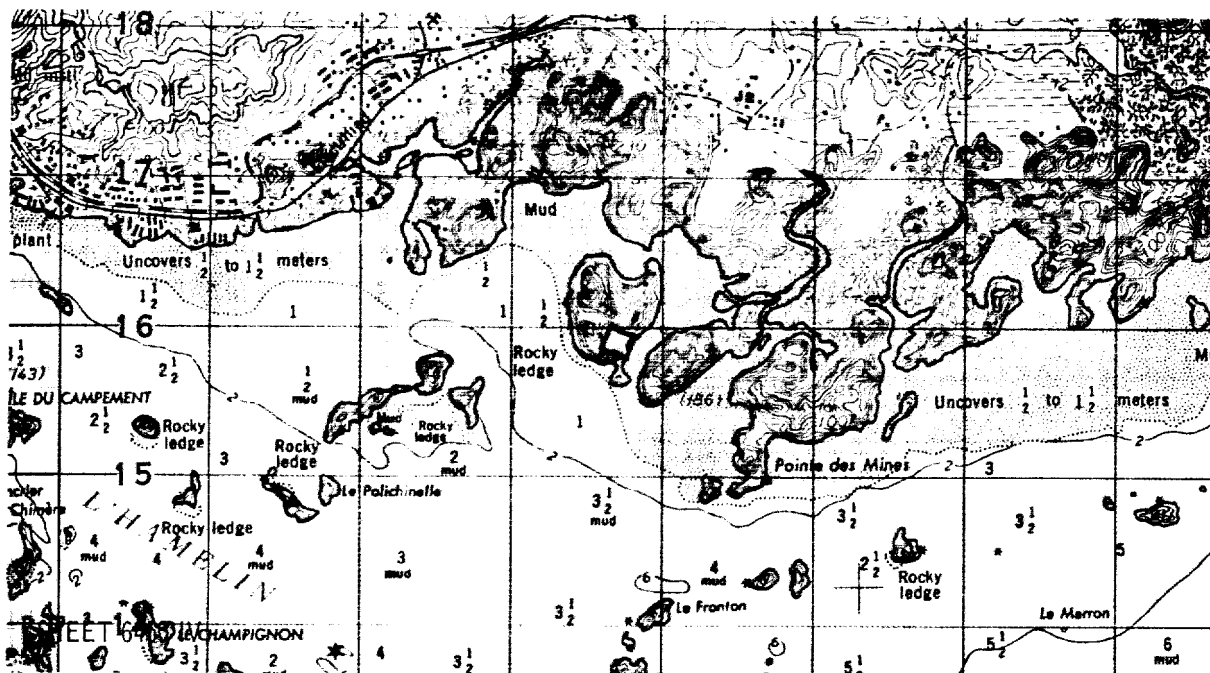
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DESCRIPTION: FACILITY, SHOWN IN AN EARLY STAGE OF CONSTRUCTION, IS SITUATED IN A LOW AREA ALMOST COMPLETELY SURROUNDED BY KARST RIDGES. IT CONSISTS OF A CIRCULAR TIDAL BASIN LINED WITH 9 GRIDIRONS (CAREENING GRIDS) IN VARIOUS STAGES OF CONSTRUCTION. A PARTIALLY CAMOUFLAGED FLOOD GATE SERVES AS THE ENTRANCE TO THE FACILITY. WHEN THE FACILITY IS IN OPERATION, VESSELS WILL BE FLOATED IN AT HIGH TIDE AND POSITIONED OVER THE GRIDIRONS. AT EBB TIDE, THE VESSELS WILL REST ON THE GRIDIRONS ABOVE WATER AND THE FLOOD GATE AT THE NARROW OPENING WILL BE CLOSED. THE AVERAGE ANNUAL TIDE IN THE AREA IS 8 FEET. THE FACILITY APPEARS UNCHANGED ON PHOTOGRAPHY OF [REDACTED]

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UTM COORDINATES

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GEOGRAPHIC COORDINATES

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NAME: AP DA CHONG BARGE YARD

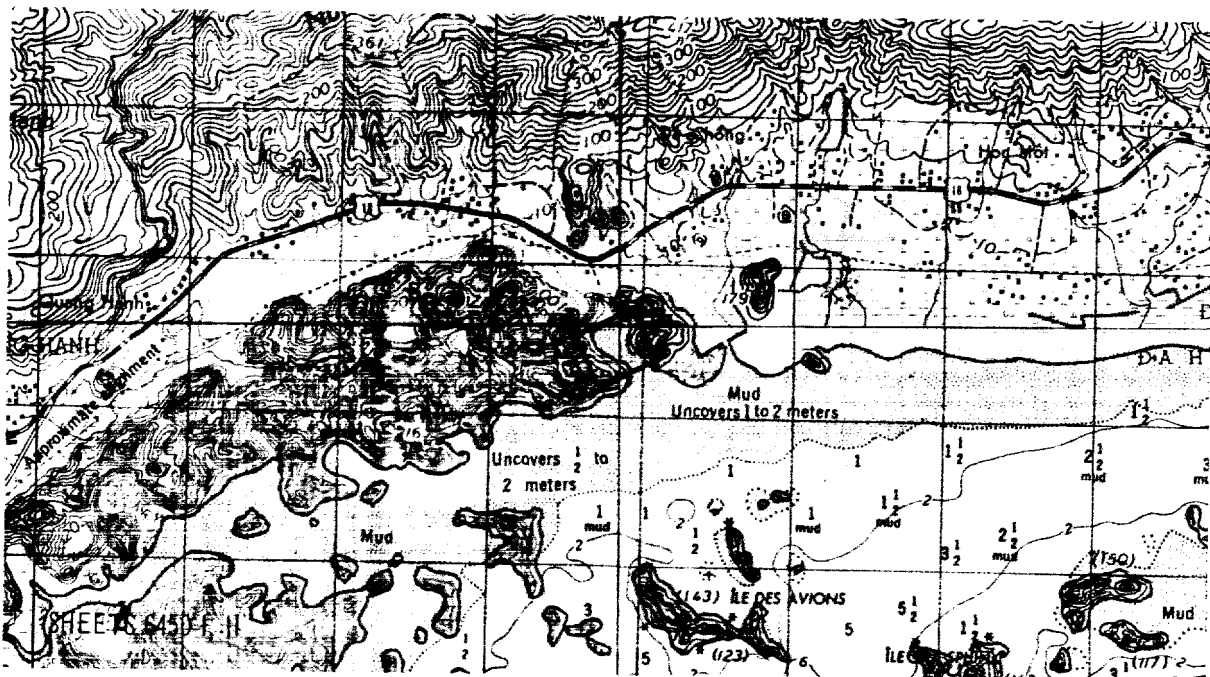
LOCATION: 10.7 NM ENE OF HON GAI PORT FACILITY, ON THE CHENAL DU CHATEAU
RENAUD

DESCRIPTION: YARD CONSISTS OF A SMALL CAMOUFLAGED FLOATING DOCK, 3 GRIDIRONS
(CAREENING GRIDS) ON A MUDFLAT BETWEEN 2 KARST HILLS, AND 1 POSSIBLE GRID-
IRON ON THE WESTERN EDGE OF THE TIDAL FLAT. TWO VESSELS ARE OBSERVED ON
GRIDIRONS ON PHOTOGRAPHY OF

25X1D

25X1D

PHOTO REFERENCES:

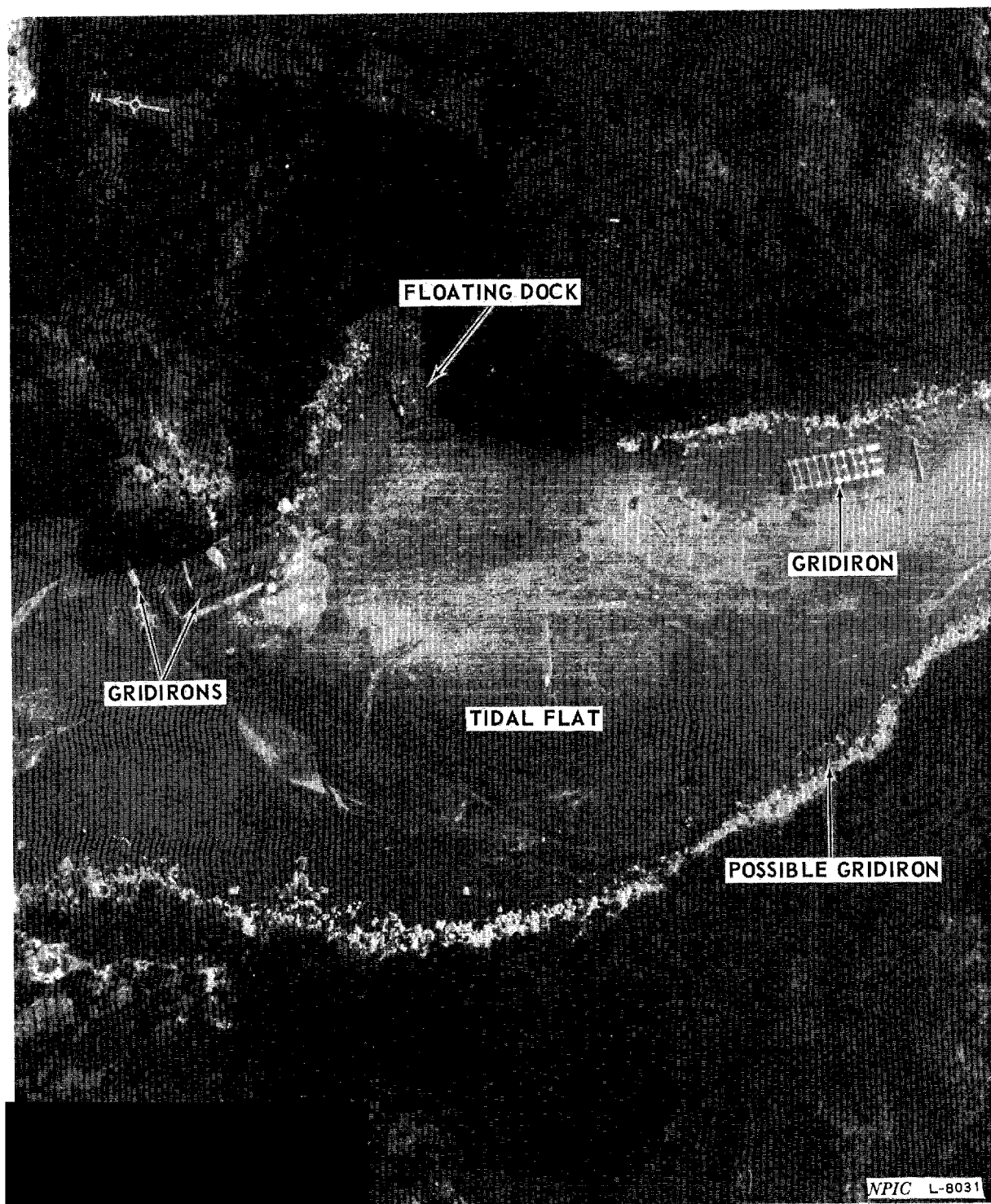


CONFIDENTIAL

25X1C

R-90/67

MAY 1967



AP DA CHONG BARGE YARD, NORTH VIETNAM

CONFIDENTIAL

NO FOREIGN DISSEM

25X1A

BE NUMBER

UTM COORDINATES

205045N 1063417E
GEOGRAPHIC COORDINATES

25X1D

NAME: KIEN AN SHIPYARD, PHUONG CHU

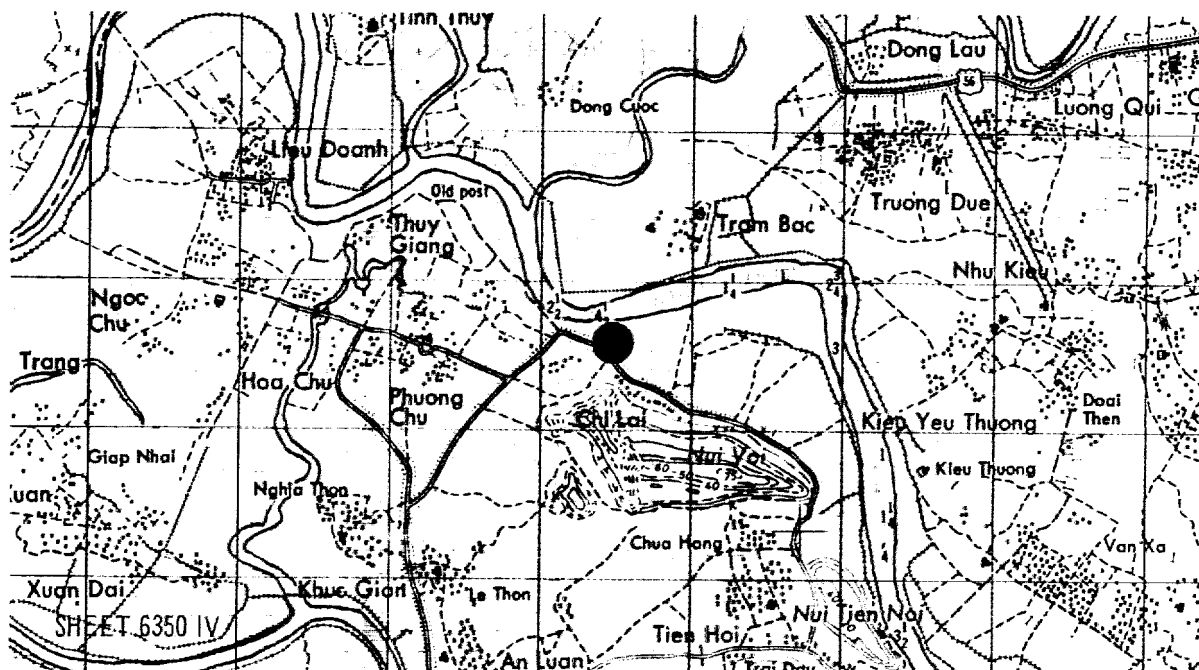
LOCATION: 0.6 NM EAST OF PHUONG CHU, 7 NM WSW OF HAI PHONG, ON THE LACH TRAY (RIVER)

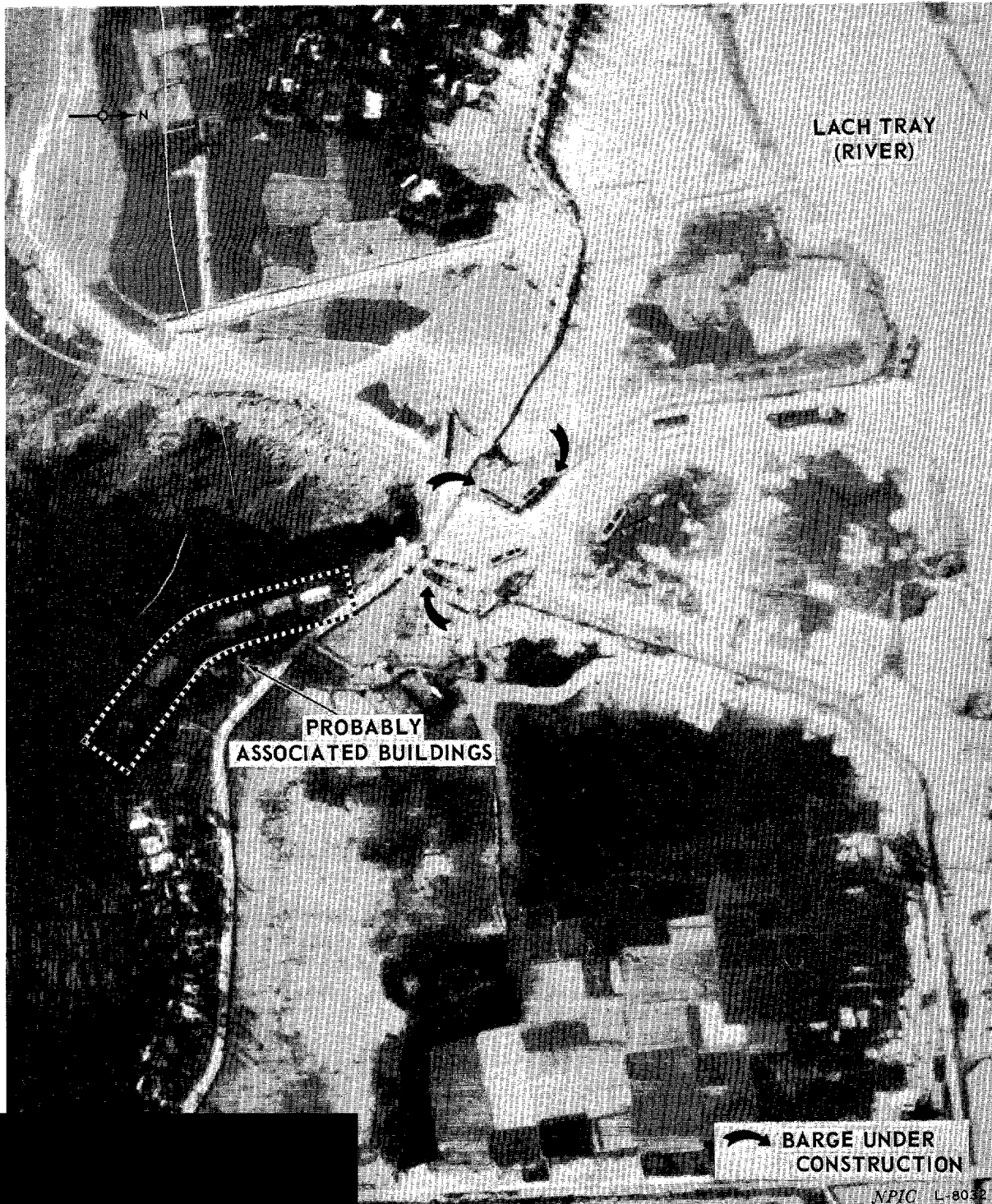
DESCRIPTION: YARD CONTAINS 3 BUILDING WAYS CAPABLE OF HOLDING VESSELS UP TO 100 FEET IN LENGTH, 2 SUPPORT SHEDS IN THE YARD, AND 5 PROBABLY ASSOCIATED BUILDINGS ACROSS THE ROAD. PHOTOGRAPHY OF [REDACTED] REVEALS 3 BARGES UNDER CONSTRUCTION ON THE WAYS, 1 TUG BOAT, 4 BARGES, 3 FERRY BOATS (2 WITHOUT PLANKING), AND 1 SELF-PROPELLED BARGE.

25X1D

25X1D

PHOTO REFERENCES: [REDACTED]





KIEN AN SHIPYARD, PHUONG CHU, NORTH VIETNAM

25X1A

BE NUMBER

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GEOGRAPHIC COORDINATES

25X1D

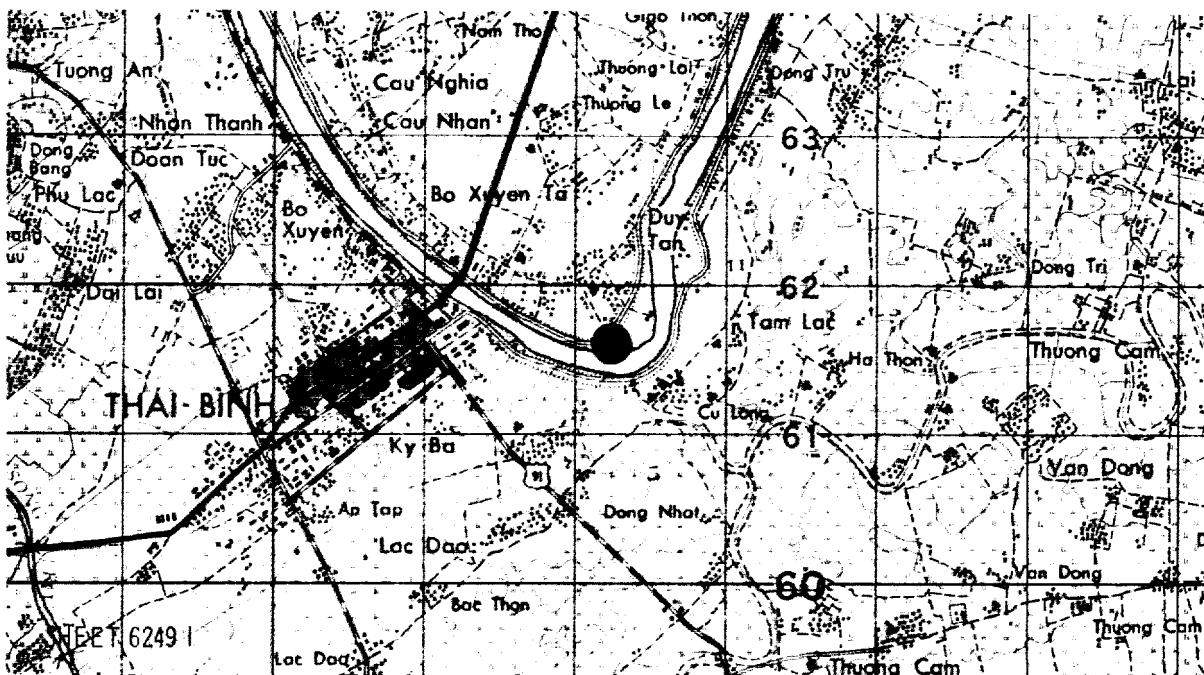
NAME: THAI BINH BOAT YARD

LOCATION: 0.7 NM EAST OF THAI BINH, ON THE NORTH BANK OF THE SONG TRA LY (RIVER)

DESCRIPTION: PRIMARILY A BUILDING/REPAIR FACILITY FOR SMALL BOATS, YARD CONSISTS OF AT LEAST 2 BUILDINGS WAYS, 1 COVERED BUILDING SHED, AND 4 SUPPORT BUILDINGS. ONE RIVER SAMPAN IS ON WAYS ON PHOTOGRAPHY OF

25X1D

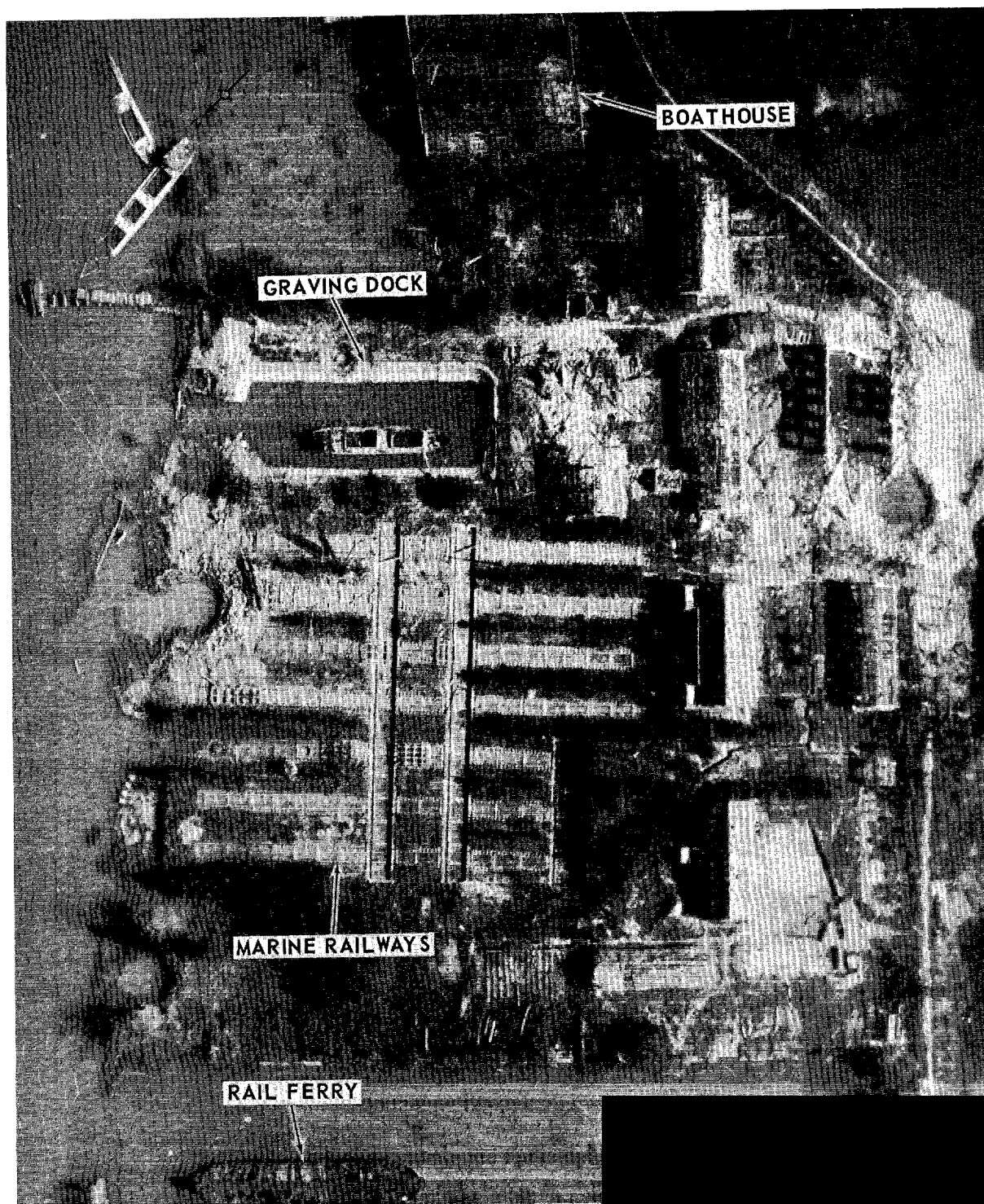
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PHOTO REFERENCES:





THAI BINH BOAT YARD ,NORTH VIETNAM

25X1D



25X1D

NINH BINH SHIP REPAIR YARD, NORTH VIETNAM

25X1A

BE NUMBER

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GEOGRAPHIC COORDINATES

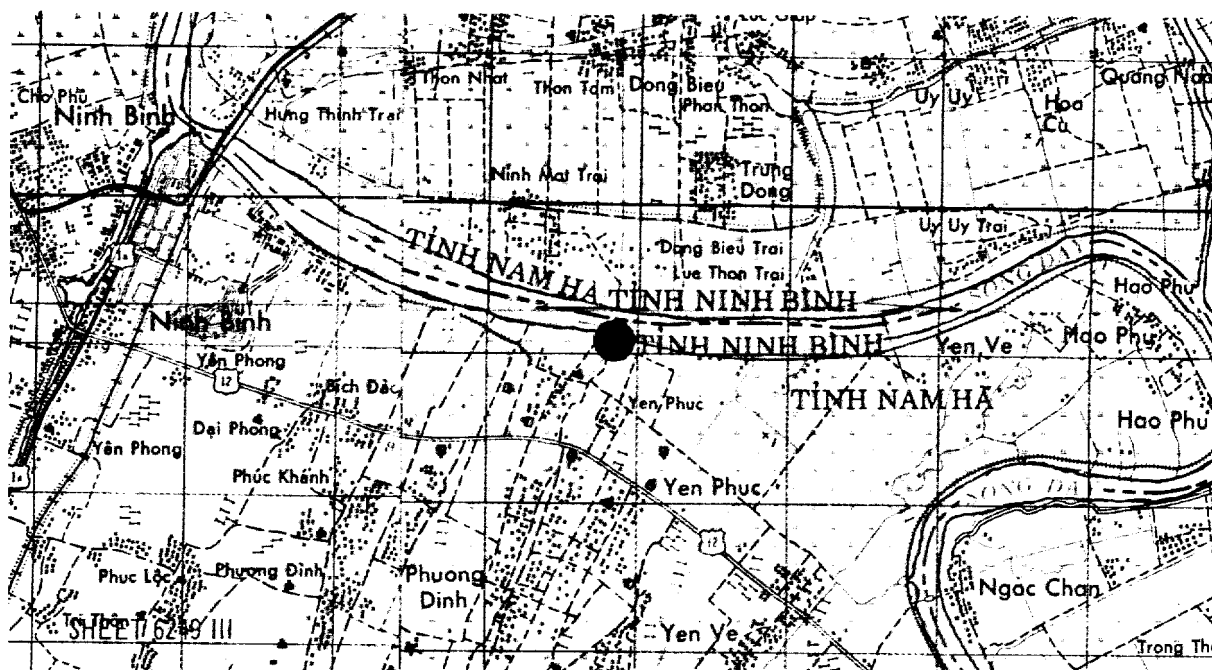
25X1D

NAME: YEN PHUC BARGE YARD

LOCATION: 0.2 NM NORTH OF YEN PHUC, ON THE SOUTH BANK OF THE SONG DAY (RIVER)

DESCRIPTION: YARD CONSISTS OF A MARINE RAILWAY FOR MINOR REPAIR ON BARGES OR RIVER CRAFT, A WINCH HOUSE AT THE HEAD OF THE RAILWAY, AND AN L-SHAPED PROBABLE SUPPORT BUILDING.

25X1D PHOTO REFERENCES:

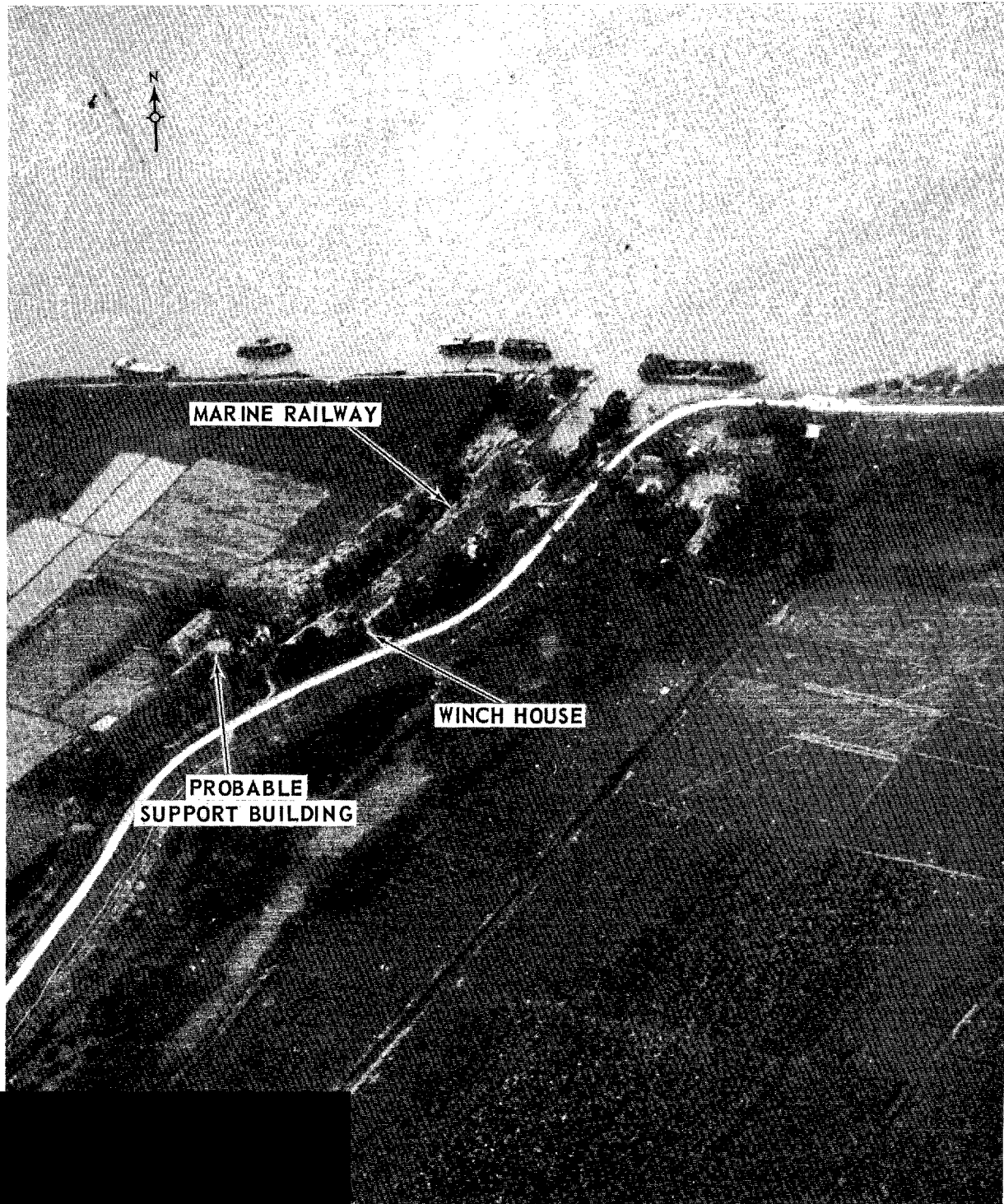


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25X1C

R-90/67

11/97



YEN PHUC BARGE YARD, NORTH VIETNAM

CONFIDENTIAL

25X1C

NO FOREIGN DISSEM

25X1A

BE NUMBER

UTM COORDINATES

211201N 1073425E
GEOGRAPHIC COORDINATES

25X1D

NAME: PORT WALLUT NAVAL BASE AND SHIPYARD

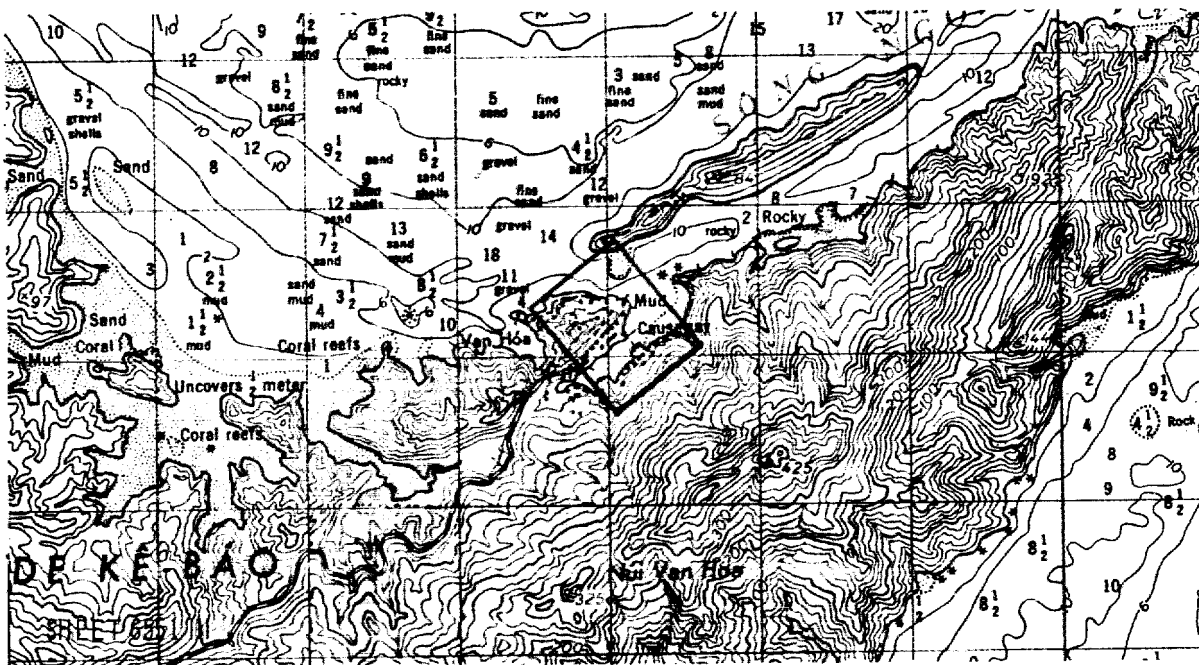
LOCATION: IN A COVE ON THE NW COAST OF ILE DE KE-BAO (ISLAND), 15 NM NE OF CAM PHA, 12 NM SE OF TIEN YEN

DESCRIPTION: YARD CONSISTS OF AN 190-FT CONCRETE WHARF, TWO 230-FT MARINE RAILWAYS, AND AN ADJACENT APRON APPROXIMATELY 200 X 90 FT. THIRTEEN SUPPORT BUILDINGS ARE PROBABLY ASSOCIATED WITH THE YARD. PHOTOGRAPHY OF REVEALS A PORTAL CRANE ON THE WHARF.

25X1D
25X1D

25X1D

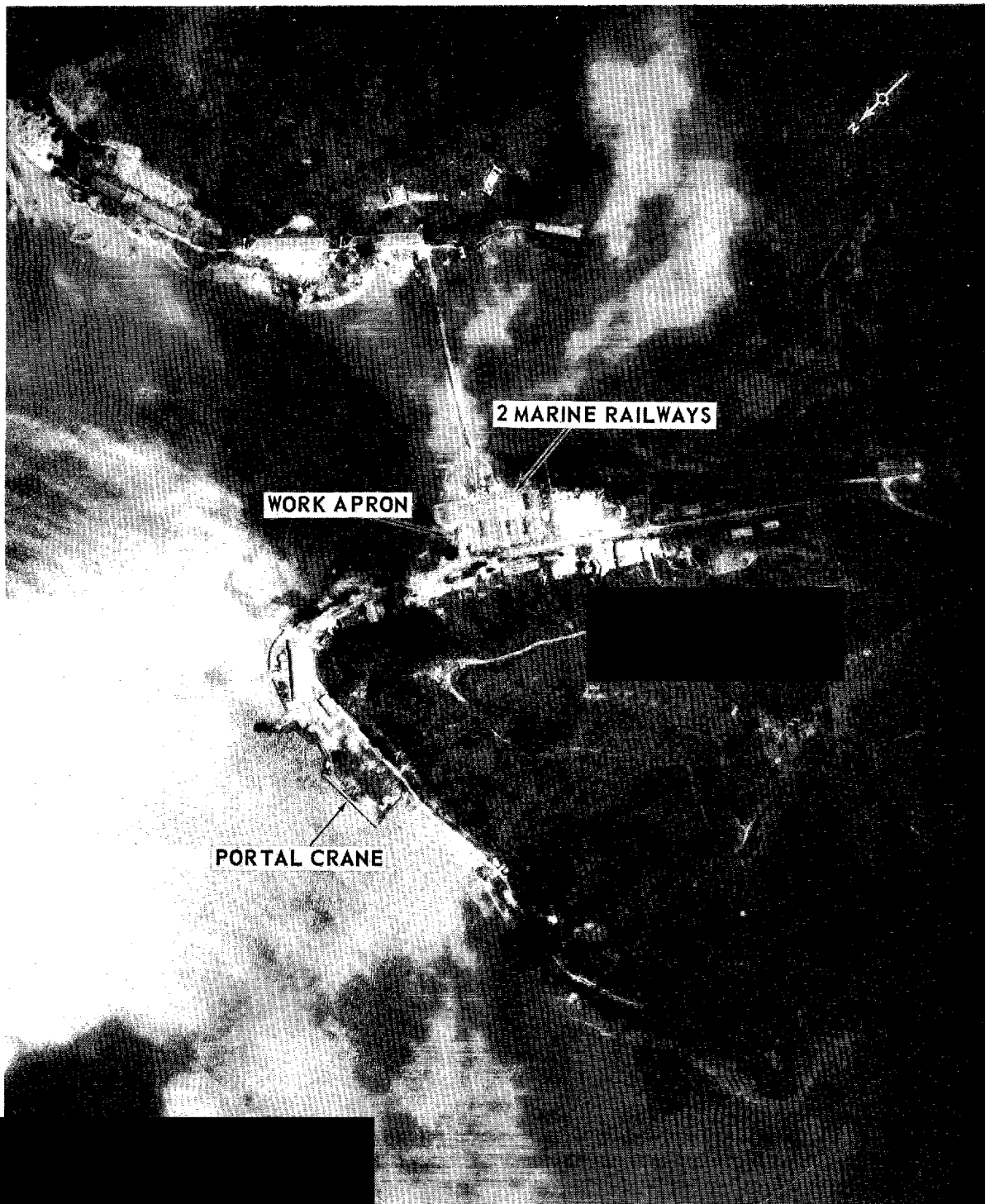
PHOTO REFERENCES:



CONFIDENTIAL

25X1C

R-90/67
MAY 1997



25X1D

25X1D

PORT WALLUT NAVAL BASE AND SHIPYARD, NORTH VIETNAM

CONFIDENTIAL

NO FOREIGN DISSEM

NO FOREIGN DISSEM

25X10

R-90/67

013917

UTM COORDINATES

205900N 1054700E
GEOGRAPHIC COORDINATES

25X1D

LOCATION: 0.7 NM NORTH OF HA DONG, ON THE EAST BANK OF THE SONG NHUE
GIANG (RIVER)

DESCRIPTION: YARD CONTAINS 4 BUILDING WAYS (2 COVERED) AND 1 POSSIBLE SHOP. AREA IS SERVED BY AN UNNUMBERED ROAD. PHOTOGRAPHY OF [REDACTED] REVEALS 2 RIVER SAMPPANS UNDER CONSTRUCTION.

25X1D

25X1D PHOTO REFERENCES:



NO FOREIGN DISSEM



HA DONG BOAT YARD, NORTH VIETNAM

25X1A

BE NUMBER

UTM COORDINATES

210518N 1054528E
GEOGRAPHIC COORDINATES

25X1D

NAME: HA NOI SHIPYARD, THUONG THUY

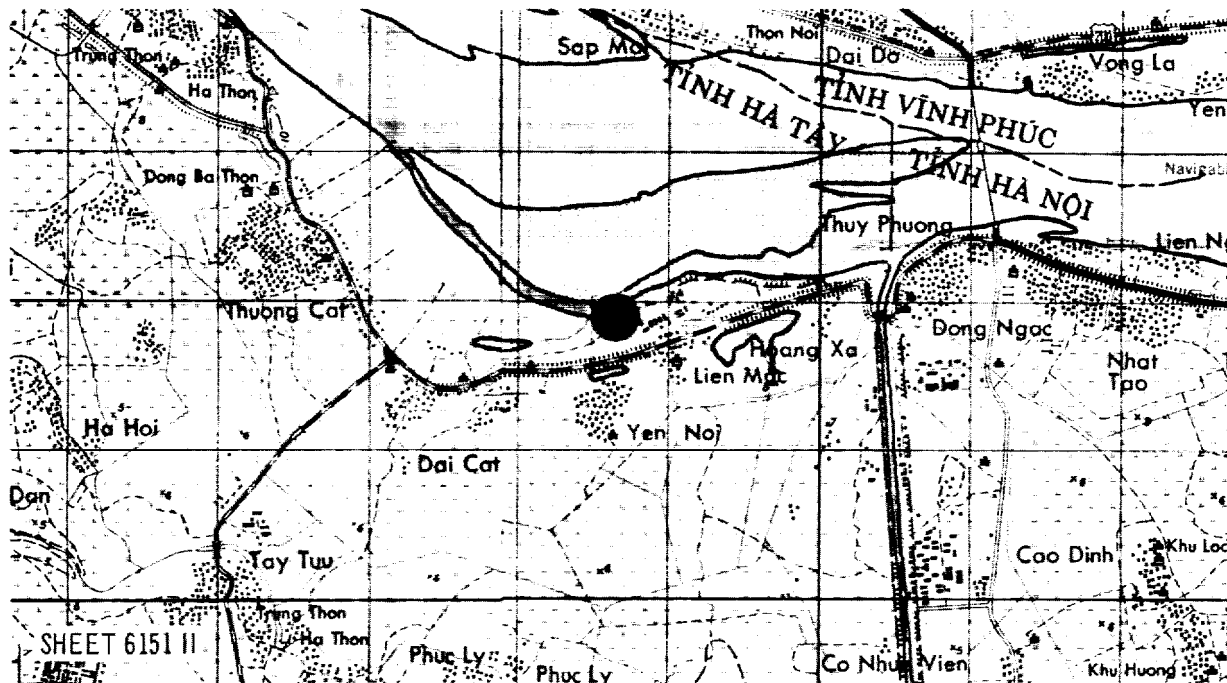
LOCATION: 2.5 NM WEST OF THUONG THUY, ON THE SOUTH BANK OF THE SONG HONG HA (RED RIVER)

DESCRIPTION: YARD APPEARS TO BE PRIMARILY ENGAGED IN CONSTRUCTING 2 SIZES OF RIVER BARGES. FACILITIES INCLUDE 2 SIDE-LAUNCHING BUILDING WAYS, A BARGE ASSEMBLY AREA, A MACHINE SHOP AREA, 11 SUPPORT BUILDINGS, AND 1 CRANE. FOUR BARGES AND AT LEAST 8 BARGE SECTIONS ARE IN THE BARGE ASSEMBLY AREA ON PHOTOGRAPHY OF

25X1D

PHOTO REFERENCES:

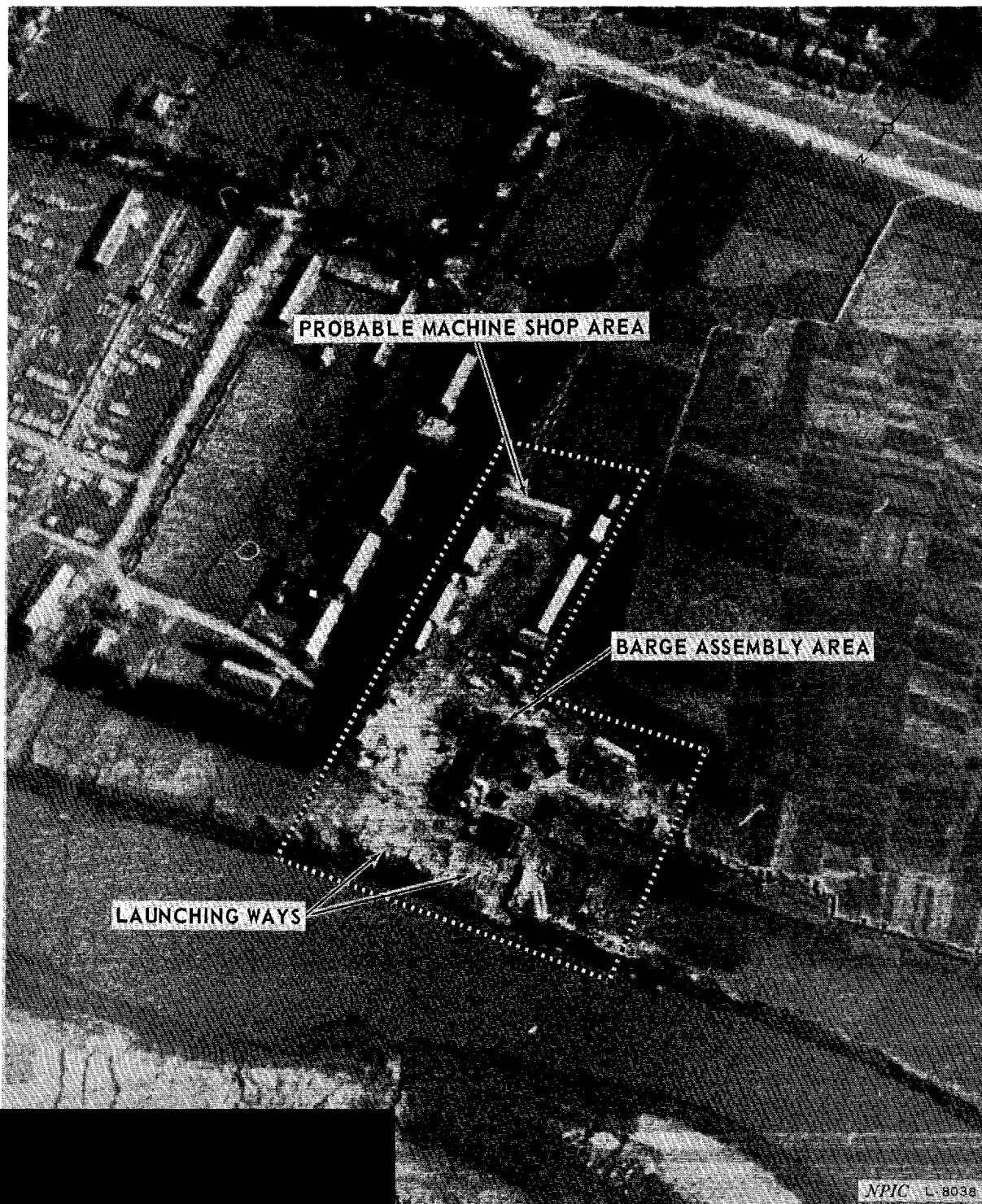
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25X1C

R-90/67



25X1D

HA NOI SHIPYARD, THUONG THUY, NORTH VIETNAM

CONFIDENTIAL

25X1C

NO FOREIGN DISSEM

25X1A

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GEOGRAPHIC COORDINATES

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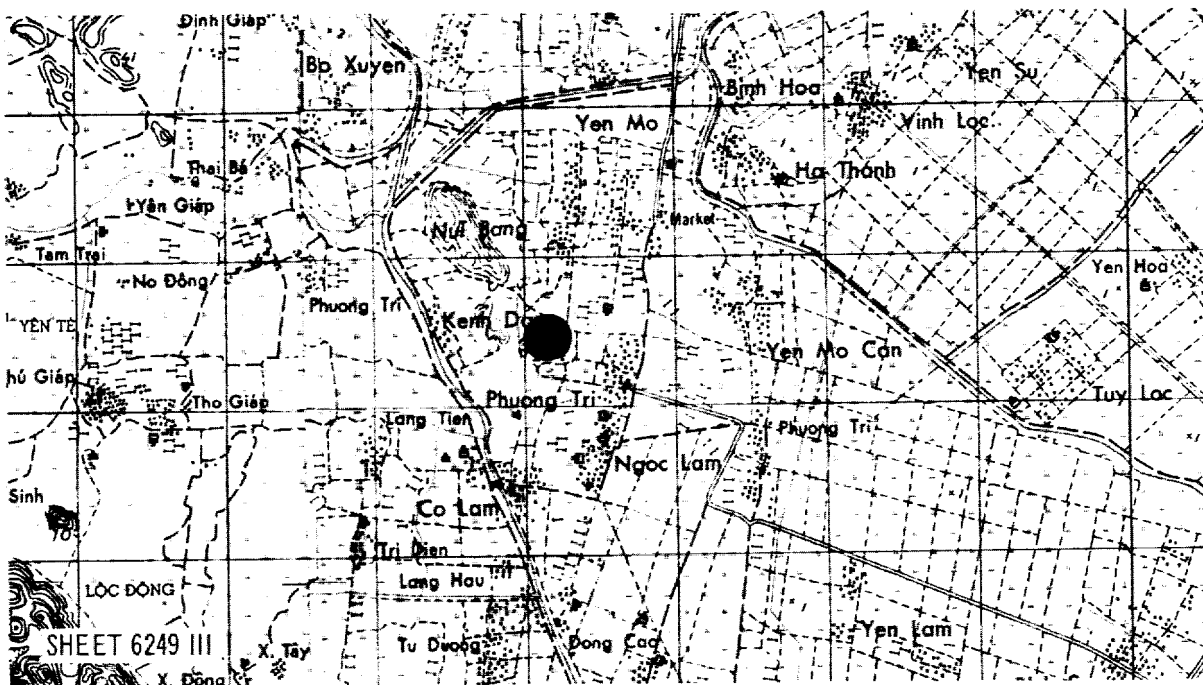
NAME: KENH DAO BOAT YARD

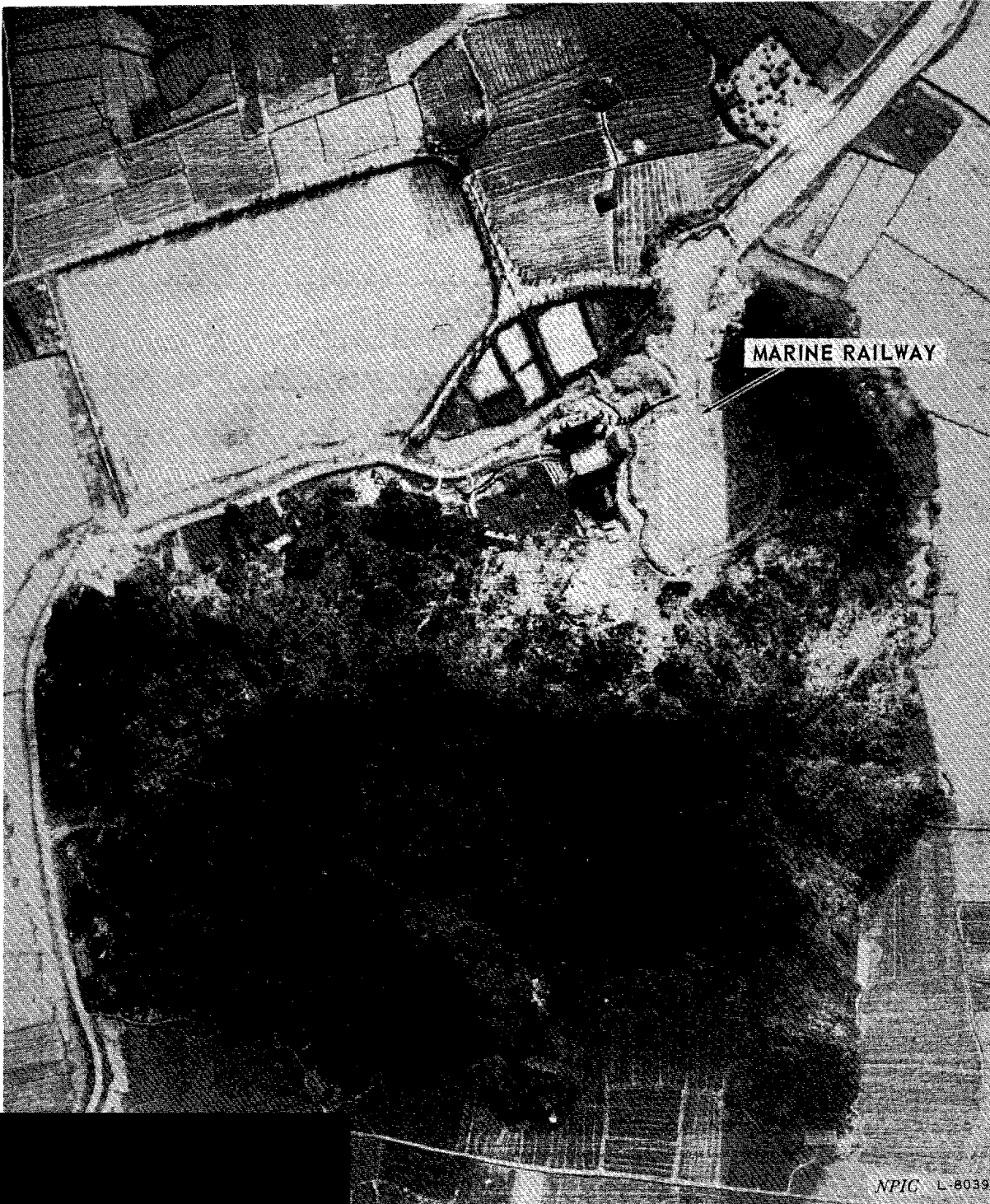
LOCATION: 0.3 NM WNW OF PHUONG TRI, AT THE BASE OF A SMALL HILL

DESCRIPTION: SMALL, NEW BOAT YARD CONSISTS OF A MARINE RAILWAY UNDER CONSTRUCTION (SHOULD MEASURE APPROXIMATELY 175 FT, WHEN COMPLETE), A BUILDING AREA APPROXIMATELY 40 X 150 FT ON BOTH SIDES OF THE RAILWAY, AND 5 SMALL SUPPORT BUILDINGS. A NEWLY EXCAVATED CHANNEL CONNECTS THE FACILITY TO THE CANAL SYSTEM. AN UNNUMBERED ROAD FROM PHUONG TRI SERVES THE AREA.

25X1D

PHOTO REFERENCES:





KENH DAO BOAT YARD, NORTH VIETNAM

BE NUMBER

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GEOGRAPHIC COORDINATES

25X1D

NAME: GIA THUONG RAIL FERRY FITTING OUT FACILITY

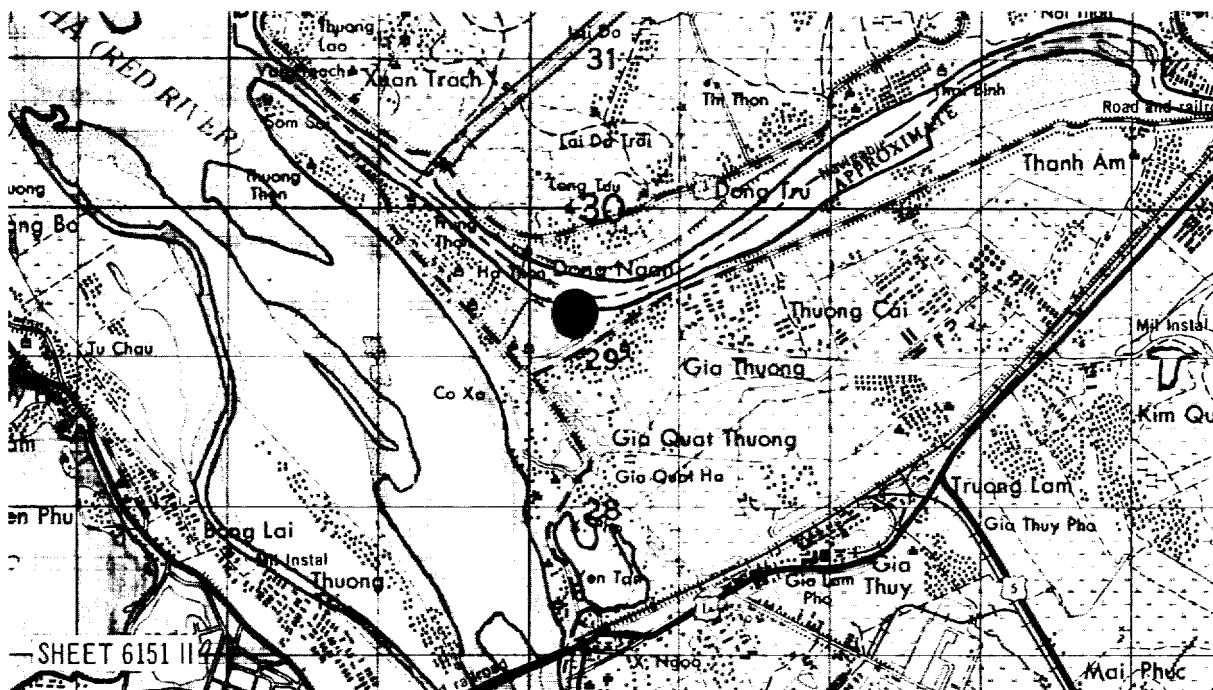
LOCATION: ON THE SOUTH BANK OF THE SONG DUONG (RIVER), 2.8 NM NNE OF HA NOI,
ON THE NW EDGE OF GIA THUONG

DESCRIPTION: FACILITY CONSISTS OF 3 SMALL PROBABLE SHOP BUILDINGS AND AN OPEN
STORAGE YARD CONTAINING CONSTRUCTION MATERIALS. ON [REDACTED] 3 BARGES ARE
BEING FITTED OUT AS RAIL FERRIES. THE BARGES ARE OF THE TYPE SEEN UNDER CON-
STRUCTION AT AN NINH NOI SHIPYARD (BE NO [REDACTED]).

25X1D

25X1A

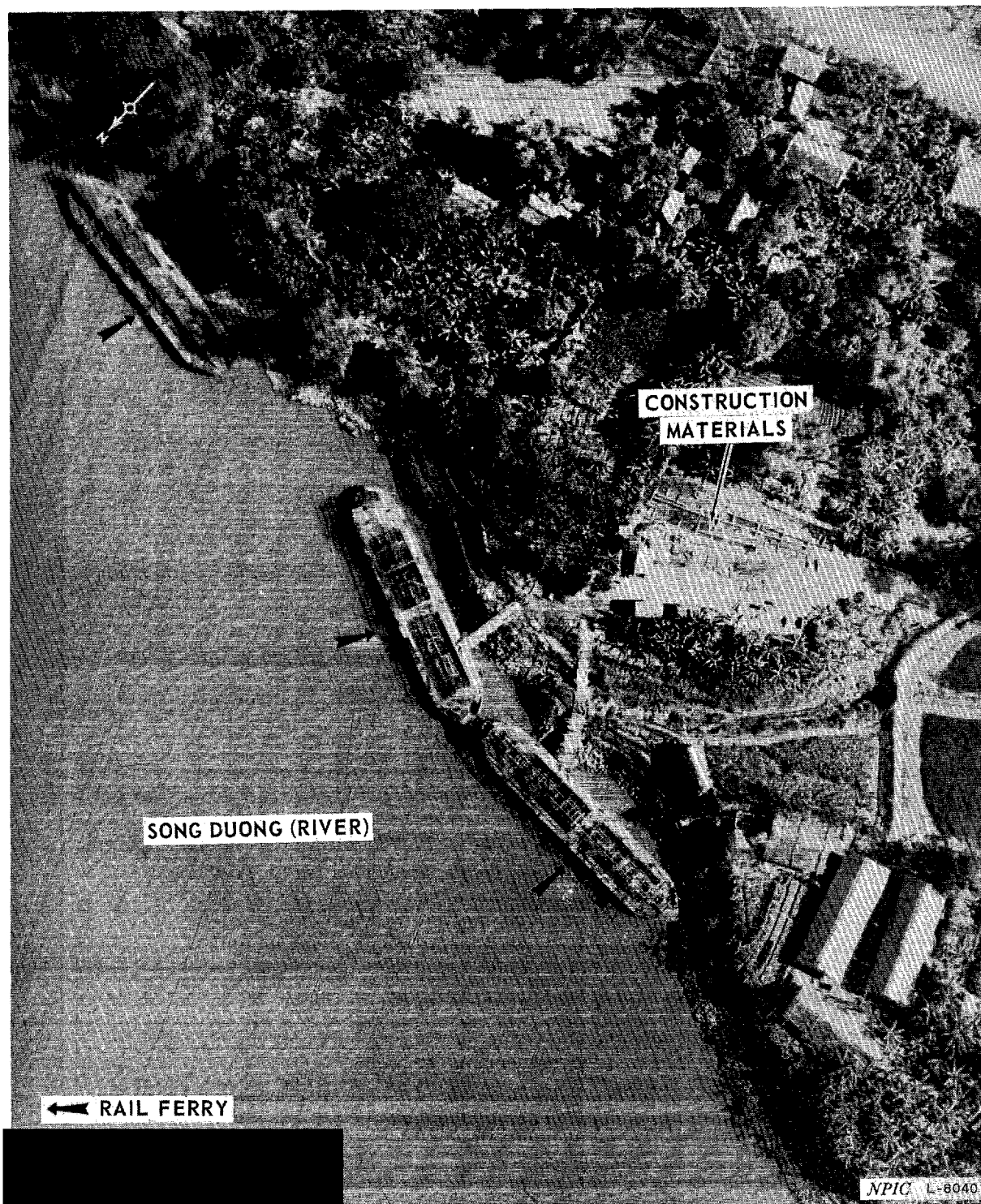
25X1D PHOTO REFERENCES: [REDACTED]



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25X1C

R-90/67



GIA THUONG RAIL FERRY FITTING OUT FACILITY, NORTH VIETNAM

CONFIDENTIAL

NO FOREIGN DISSEM

BE NUMBER

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211035N 1052835E
GEOGRAPHIC COORDINATES

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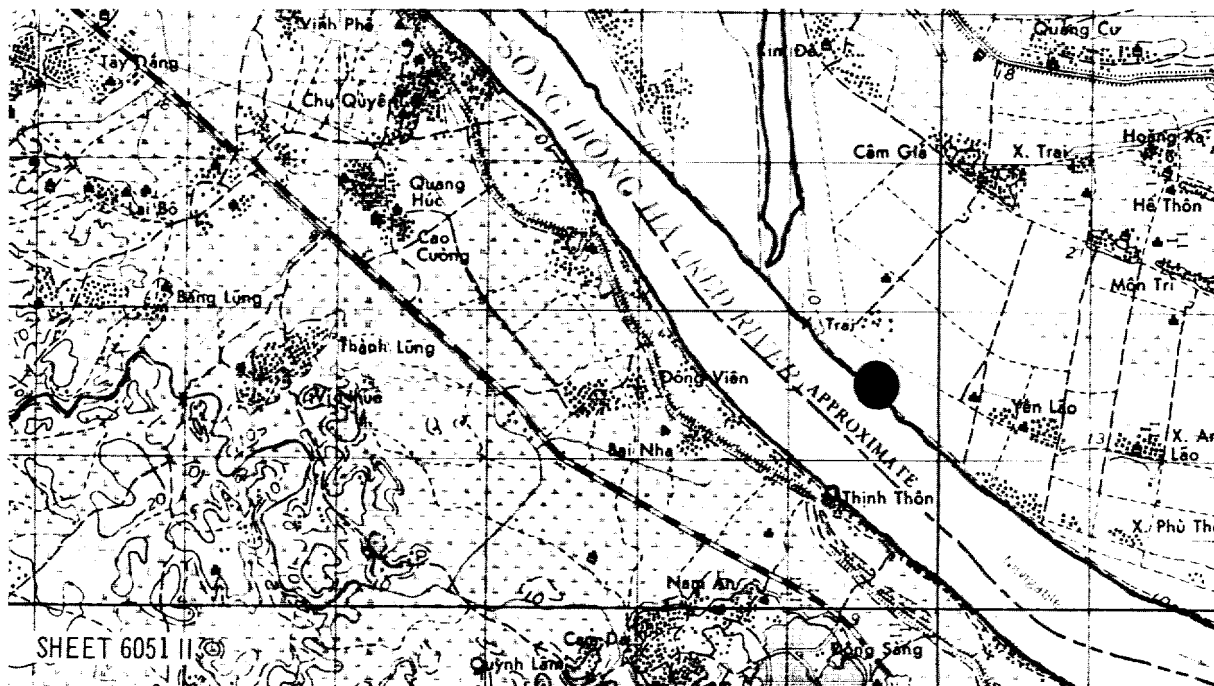
NAME: XOM TRAI BOAT BUILDING YARD

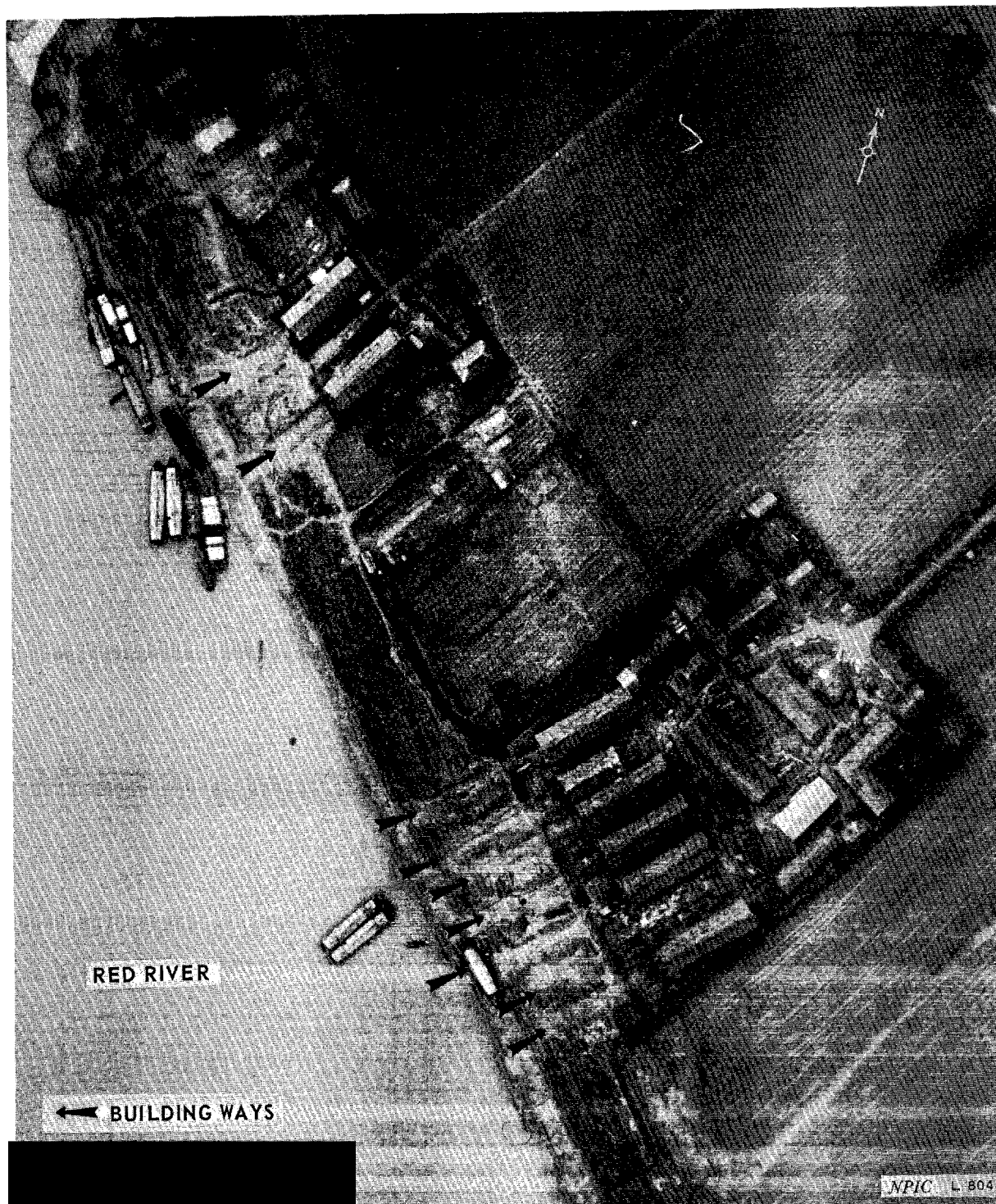
LOCATION: 0.2 NM SOUTH OF XOM TRAI, ON THE NORTH BANK OF THE SONG HONG HA (RED RIVER)

DESCRIPTION: FACILITY CONSISTS OF 9 BUILDING WAYS (8 COVERED) AND 20 SMALL ASSOCIATED BUILDINGS. YARD APPARENTLY CONSTRUCTS RIVER CARGO SAMPANS OF THE SAME CLASS AS THE 9 SHOWN ON PHOTO (7 ADDITIONAL SAMPANS OF THIS CLASS IN THE AREA ARE NOT ON PHOTO).

PHOTO REFERENCES:

25X1D





XOM TRAI BOAT BUILDING YARD, NORTH VIETNAM

BE NUMBER

UTM COORDINATES

213312N 1055210E
GEOGRAPHIC COORDINATES

25X1D

NAME: THAI NGUYEN IRON AND STEEL COMBINE, SHIPBUILDING AREA

LOCATION: IN THAI NGUYEN IRON AND STEEL COMBINE (BE NO [REDACTED])

25X1A

DESCRIPTION: PHOTOGRAPHY OF [REDACTED] REVEALS 25 BARGES AND SMALL RIVER CRAFT (23 ON PHOTO) UNDER CONSTRUCTION IN THE THAI NGUYEN STEEL COMBINE. NINETEEN [REDACTED] BARGES, ONE [REDACTED] BARGE, AND THREE [REDACTED] AND TWO [REDACTED] SMALL RIVER CRAFT ARE OBSERVED. EQUIPMENT INCLUDES 2 PORTAL JIB CRANES AND 1 DERRICK. PHOTOGRAPHY OF [REDACTED] REVEALS AREA HAS BEEN STRUCK; ONLY 6 APPARENTLY UNDAMAGED VESSELS AND 2 DAMAGED VESSELS REMAIN. A PROBABLE LAUNCHING POINT IS 0.9 NM NORTH OF THE SOUTH BANK OF THE SONG CAU AT UTM [REDACTED] WHERE 1 CARGO BARGE IS ON SHORE. AT LEAST 14 BARGES ARE IN THE SONG CAU AND AN UNNAMED CANAL TO THE EAST.

25X1D

25X1D

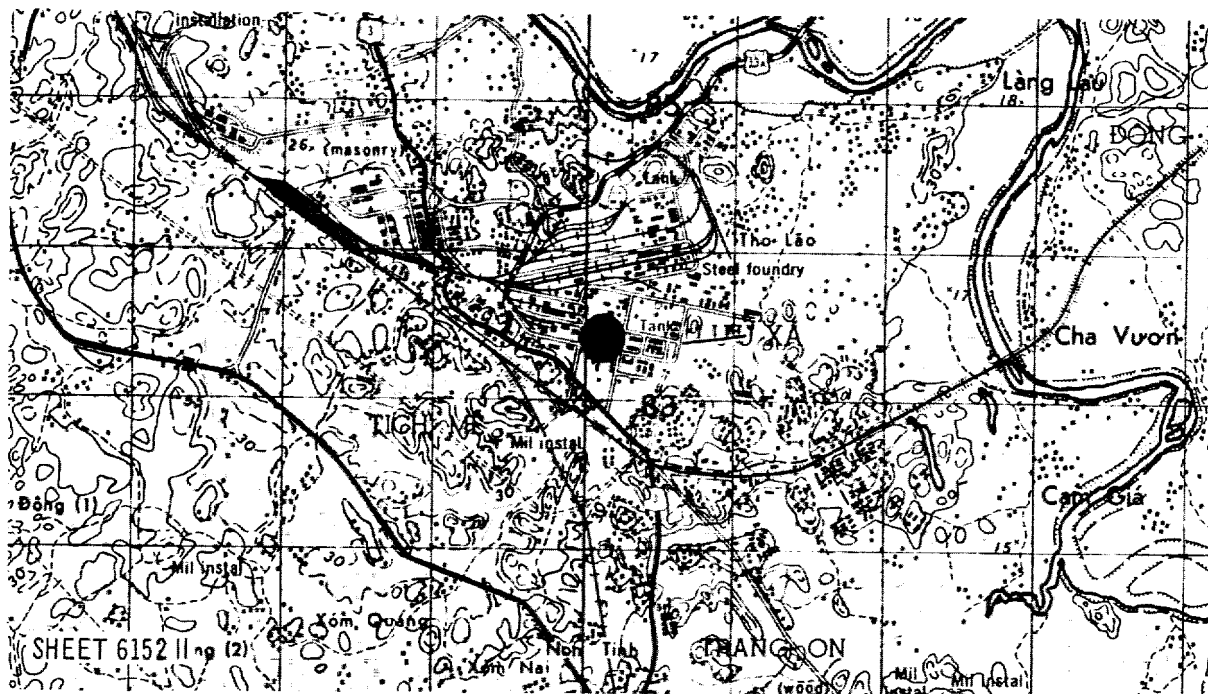
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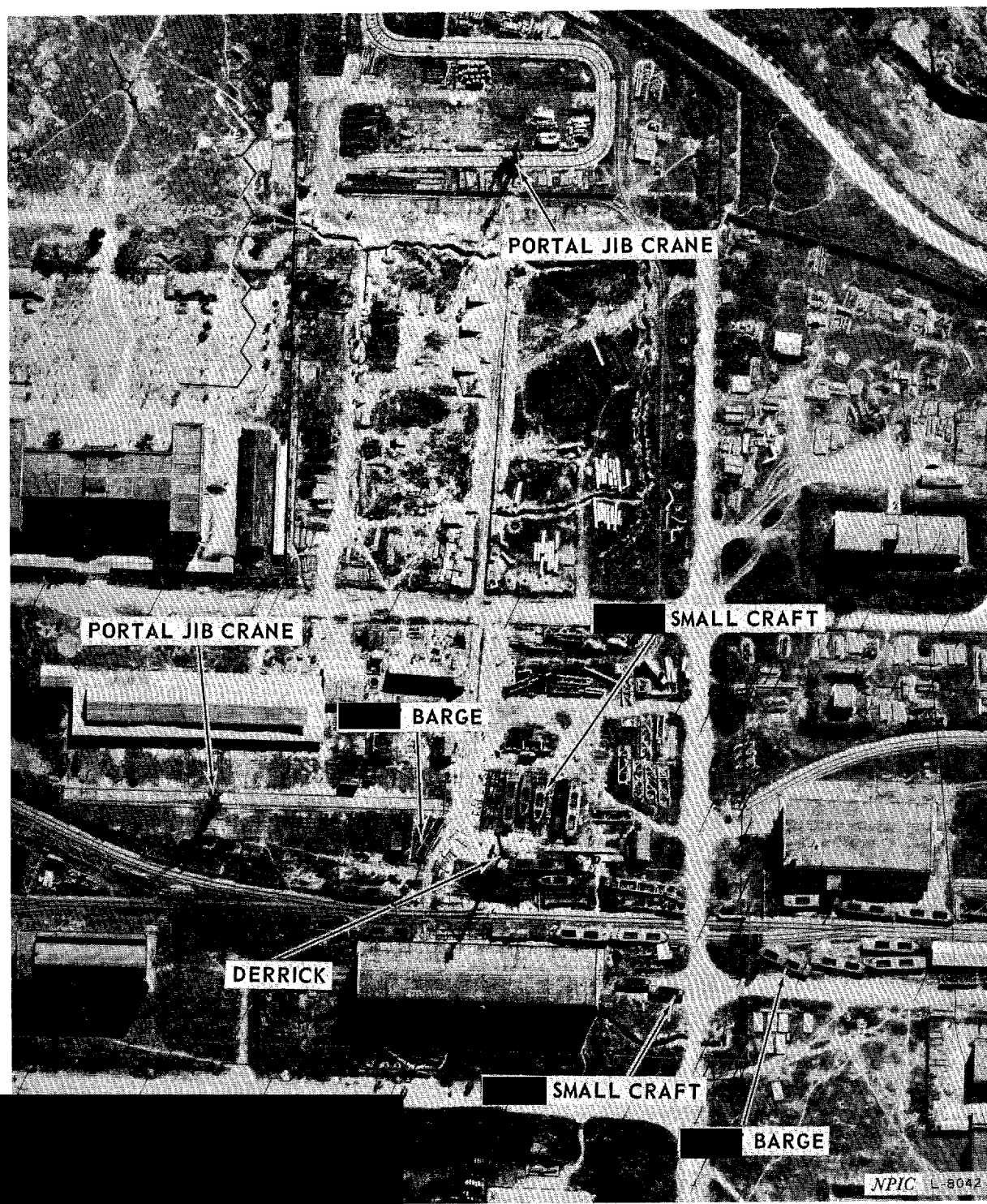
25X1D

25X1D
25X1D
25X1D

PHOTO REFERENCES:

25X1D





THAI NGUYEN IRON AND STEEL COMBINE, SHIPBUILDING AREA, NORTH VIETNAM

BE NUMBER

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174200N 1062900E
GEOGRAPHIC COORDINATES

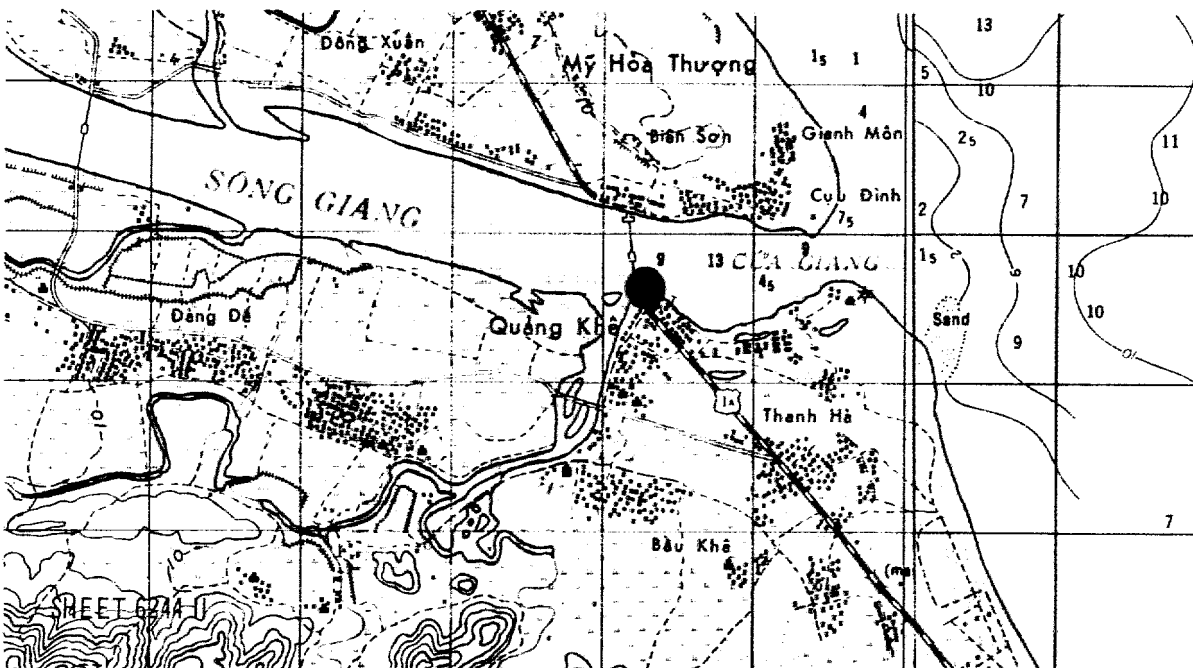
25X1D

NAME: QUANG KHE BOAT YARD

LOCATION: ON THE SOUTH BANK OF THE SONG GIANG (RIVER)

DESCRIPTION: SMALL BOAT YARD CONSTRUCTS RIVER CRAFT SIMILAR TO THE ONE SHOWN ON PHOTO. SPORADIC CONSTRUCTION OF INDIVIDUAL VESSELS WAS OBSERVED UP
25X1D THE VESSELS ARE SIMILAR TO THOSE COMMONLY OBSERVED IN THE RIVERS AND CANALS OF THE RED RIVER DELTA. THERE ARE NO IDENTIFIABLE SUPPORT FACILITIES AT THE YARD. AREA IS SERVED BY ROUTE 1A.

25X1D PHOTO REFERENCES:



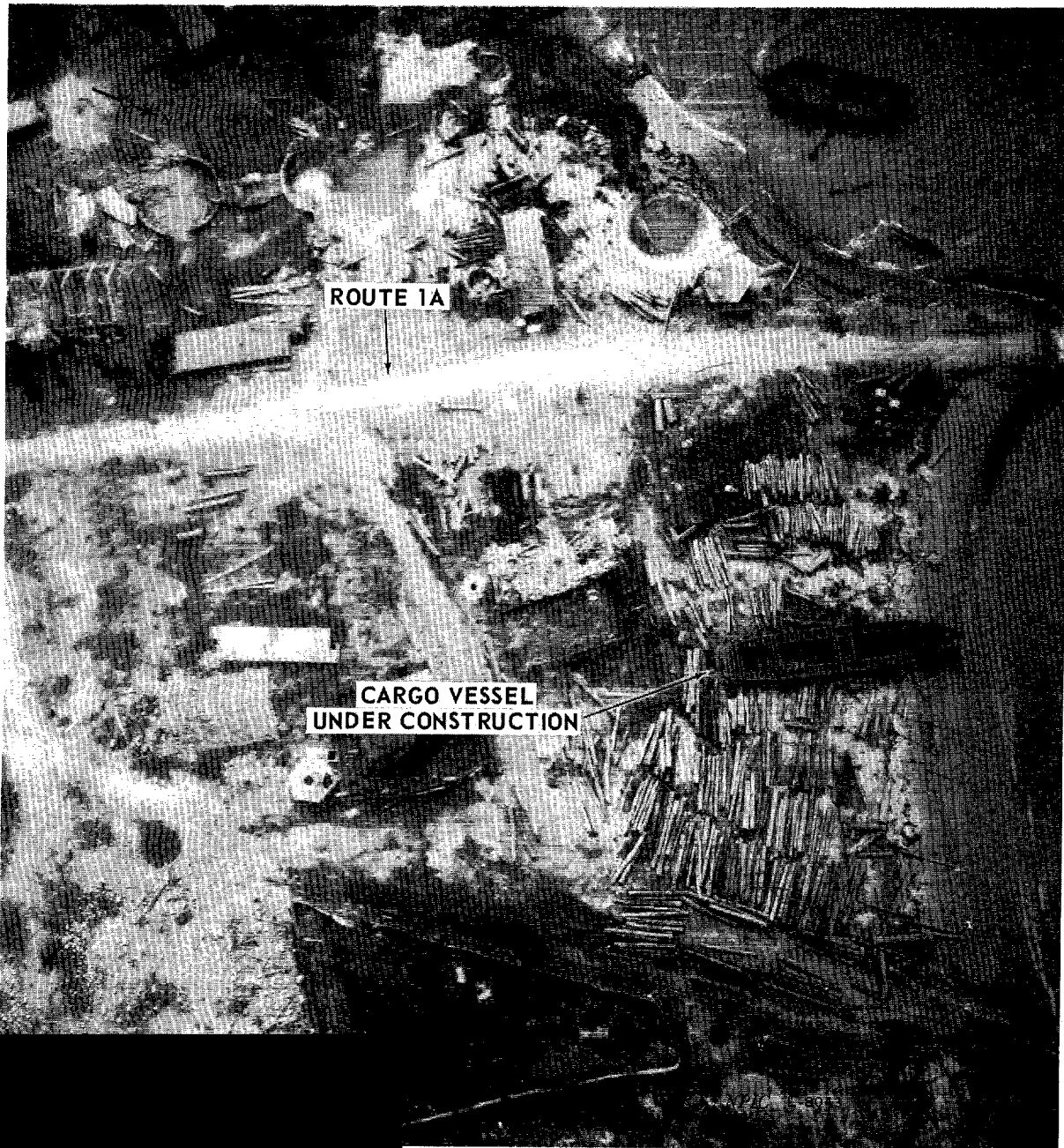
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R-90/67

01/1967



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QUANG KHE BOAT YARD ,NORTH VIETNAM

CONFIDENTIAL

25X1C

NO FOREIGN DISSEM

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25X1C

R-90/67

NO FOREIGN DISSEM

25X1A

BE NUMBER

UTM COORDINATES

203847N 1060738E
GEOGRAPHIC COORDINATES

25X1D

NAME: HUNG YEN BOAT YARD

LOCATION: 0.5 NM SE OF THIEN PHIEU, IN A CUT ON THE NORTH BANK OF THE CANAL DES BAMBOUS

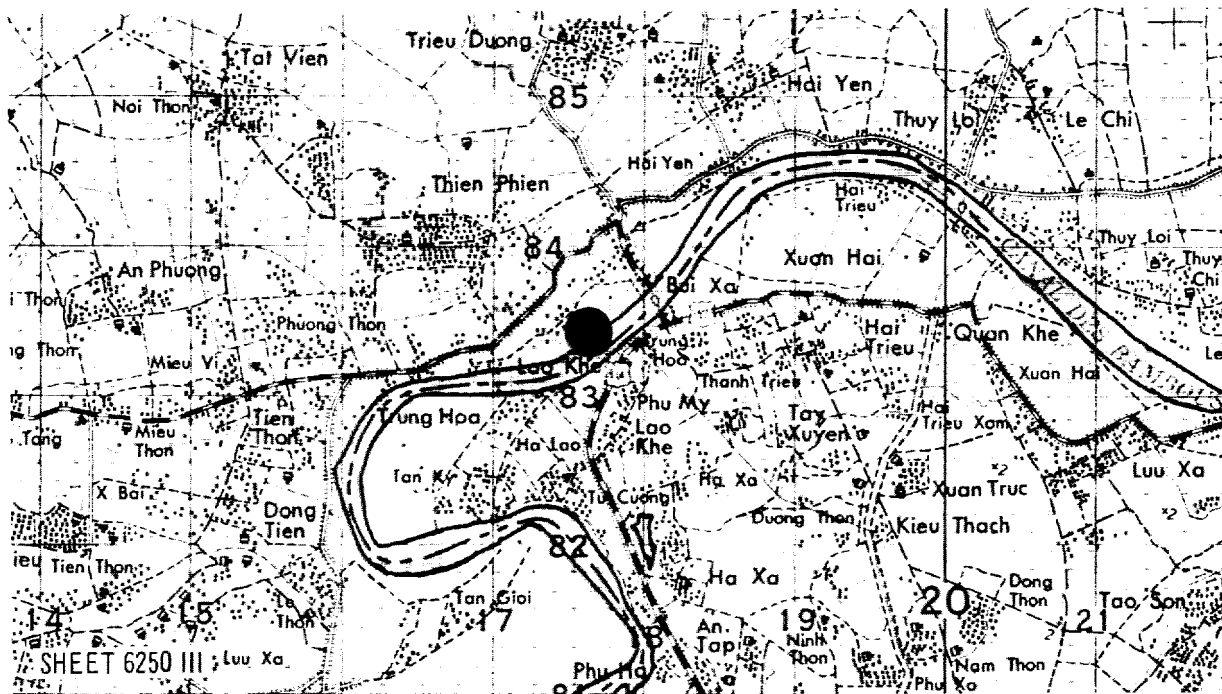
DESCRIPTION: SMALL YARD, ENGAGED IN THE CONSTRUCTION AND FITTING OUT OF SMALL RIVER CRAFT, CONTAINS 7 BUILDING WAYS (3 COVERED), SEVERAL OPEN STORAGE AREAS WITH LUMBER, AND A SMALL PROBABLE SAWMILL. PHOTOGRAPHY OF

REVEALS 2 RIVER CRAFT ON THE BUILDING WAYS AND 5 IN THE WATER.

25X1D

PHOTO REFERENCES:

25X1D

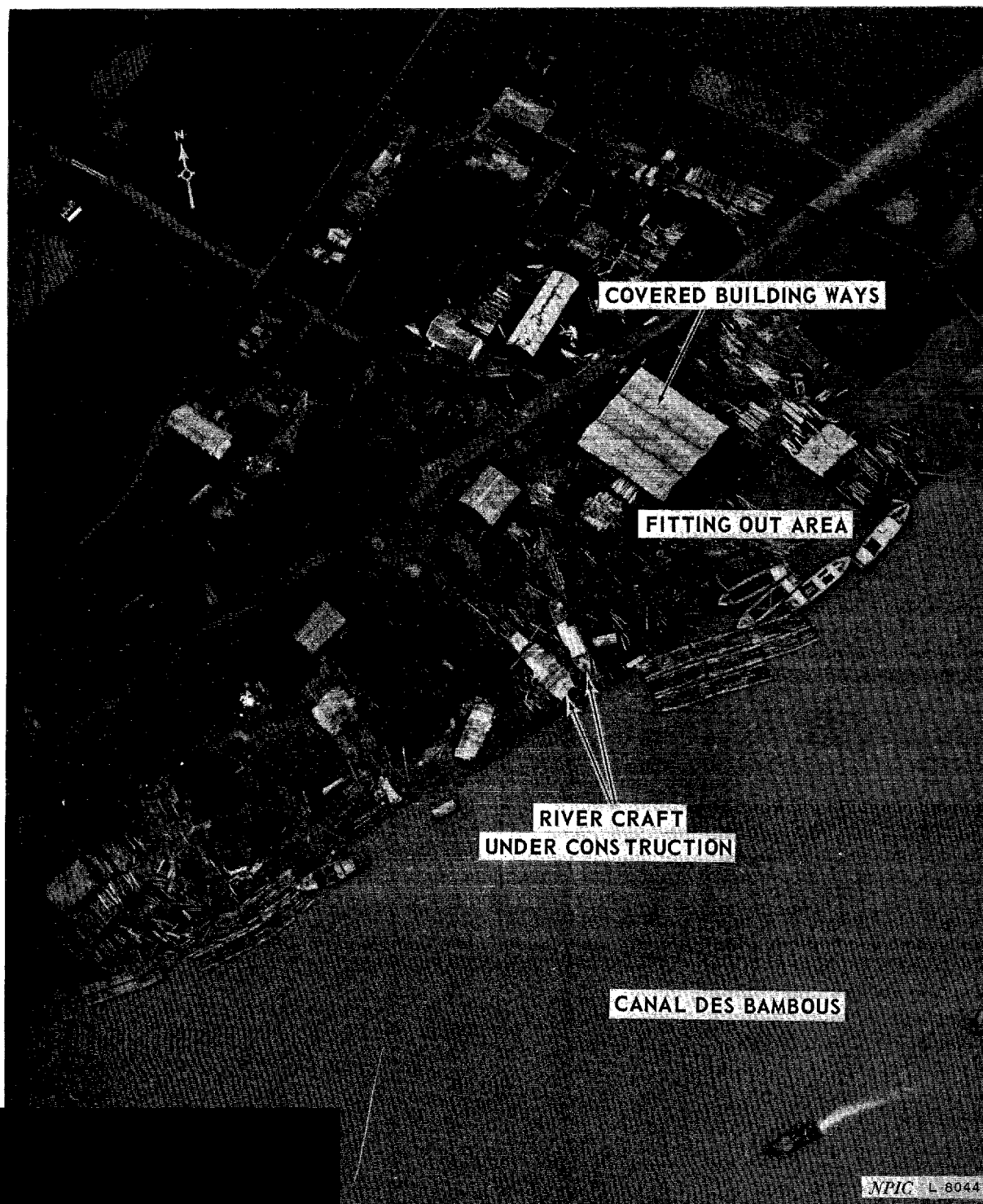


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R-90/67

MAY 1967



25X1D

HUNG YEN BOAT YARD, NORTH VIETNAM

CONFIDENTIAL

25X1C

NO FOREIGN DISSEM

25X1A

BE NUMBER

UTM COORDINATES

205705N 1063233E
GEOGRAPHIC COORDINATES

25X1D

NAME: CO PHUC BARGE YARD

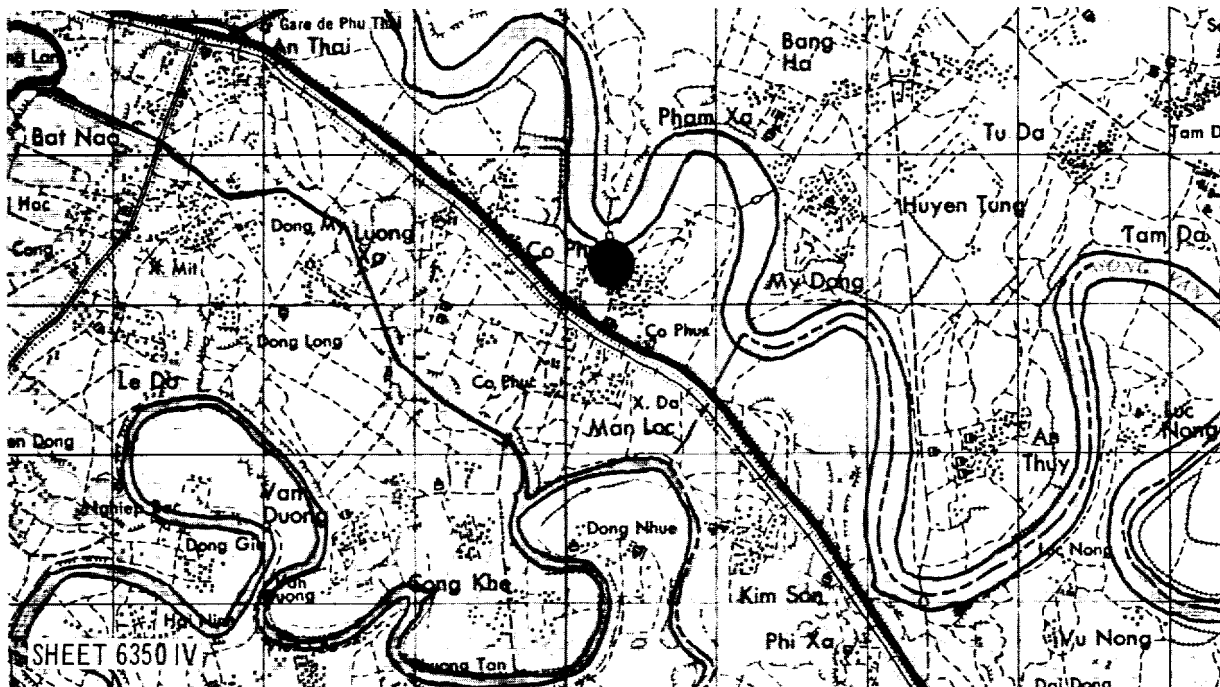
LOCATION: ON NORTH EDGE OF CO PHUC, 9.1 NM NW OF HAI PHONG SHIPYARD NO 4 DANCETTE, ON THE SOUTH BANK OF THE SONG KINH MON (RIVER)

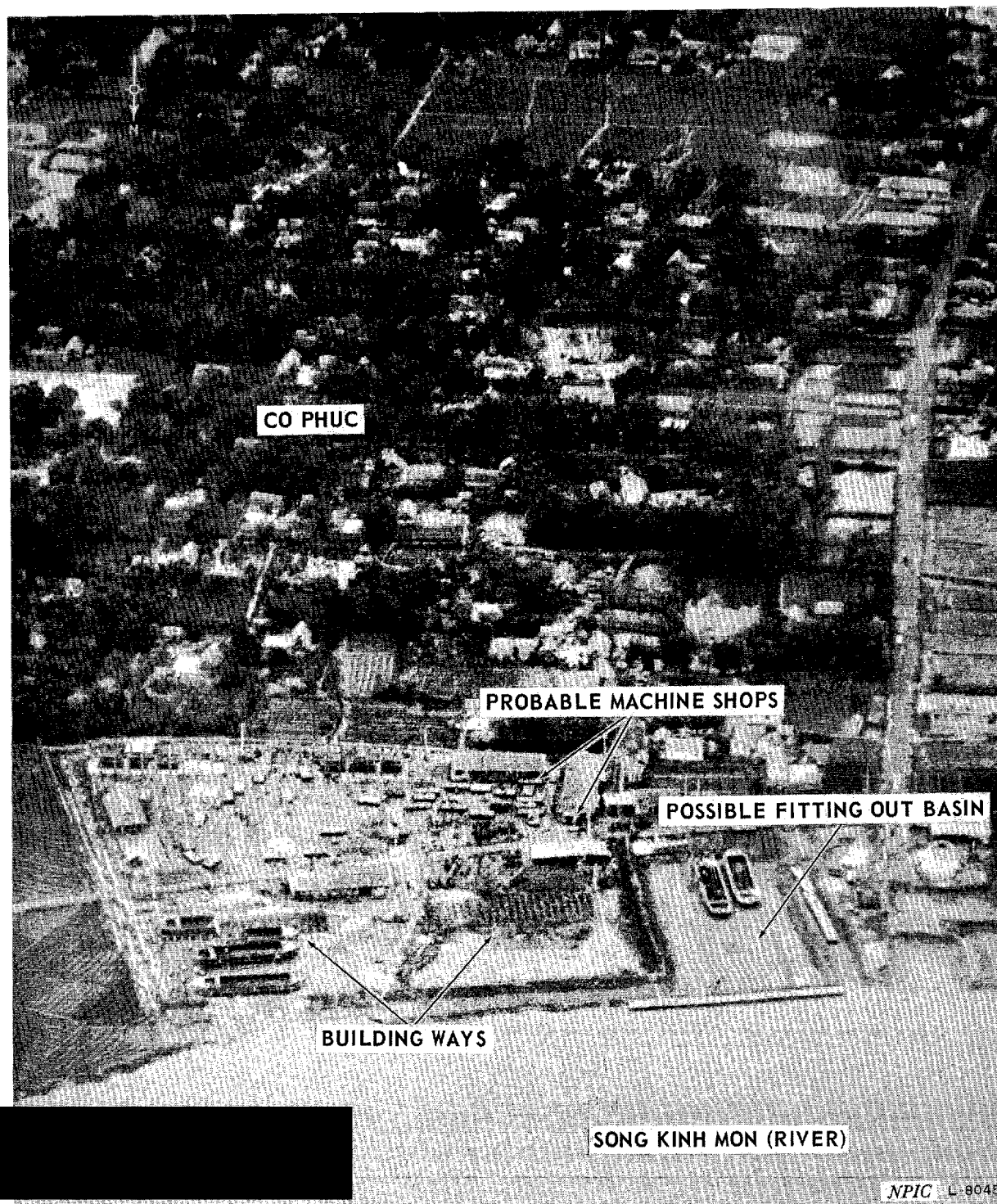
DESCRIPTION: FACILITY CONSISTS OF 2 BUILDING WAYS OF LATTICE PLANKING, A POSSIBLE FITTING OUT BASIN, 2 PROBABLE MACHINE SHOPS, 4 STORAGE/SUPPORT BUILDINGS, AND A LARGE OPEN STORAGE AREA. AREA IS SERVED BY AN UNNUMBERED ROAD EXTENDING TO ROUTE 5. PHOTOGRAPHY OF [REDACTED] REVEALS 2 BARGES IN THE POSSIBLE FITTING OUT BASIN AND 2 BARGES IN FINAL STAGES OF CONSTRUCTION, 1 BOW SECTION, AND 1 STERN SECTION ADJACENT TO BUILDING WAYS.

25X1D

PHOTO REFERENCES: [REDACTED]

25X1D





25X1D

CO PHUC BARGE YARD ,NORTH VIETNAM

25X1A

BE NUMBER

UTM COORDINATES

205817N 1070307E
GEOGRAPHIC COORDINATES

25X1D

NAME: HON GAI SHIP REPAIR YARD WEST

LOCATION: 0.2 NM SOUTH OF CAI LAN, 1.3 NM NW OF HON GAI

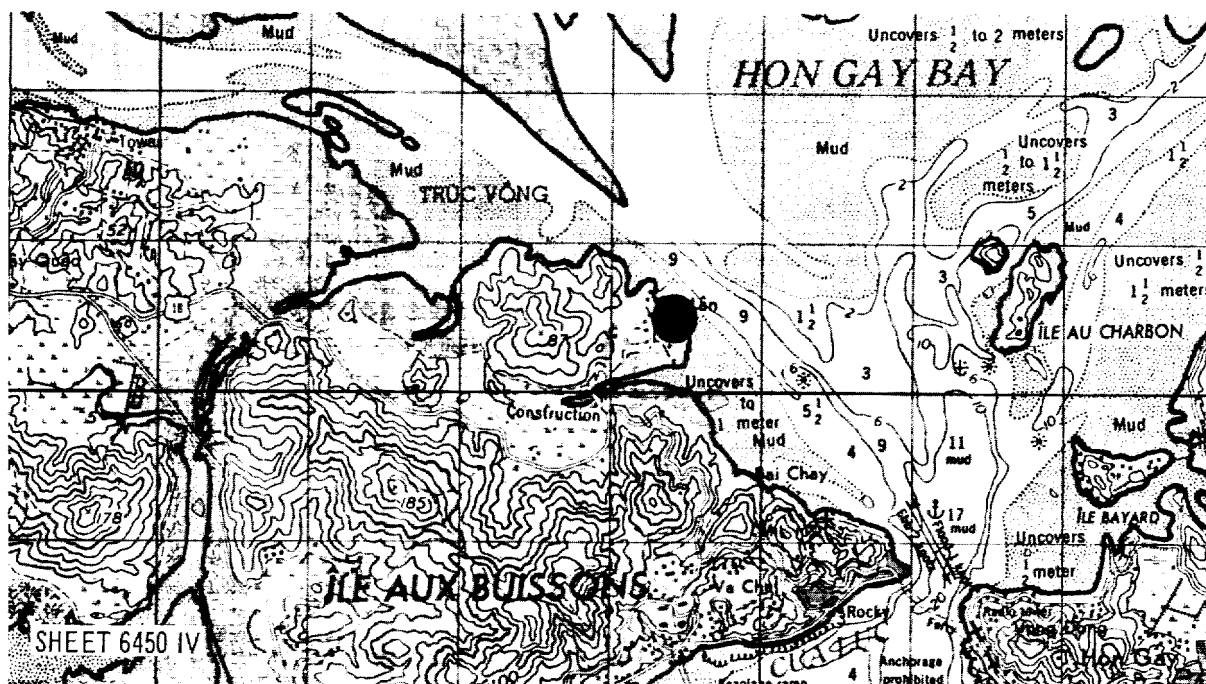
DESCRIPTION: FACILITY CONTAINS 2 APPARENTLY COMPLETED GRAVING DOCKS WITH GATES IN PLACE. AREA APPEARS TO BE IN A STATE OF DISUSE. A MOTORABLE ROAD EXTENDS FROM AREA TO CAI LAN WHERE AN IMPROVED ROAD LEADS TO ROUTE 18. PHOTOGRAPHY OF [REDACTED] REVEALS A PROBABLE TRANSshipment POINT UNDER CONSTRUCTION IN THE AREA.

25X1D

PHOTO REFERENCES:



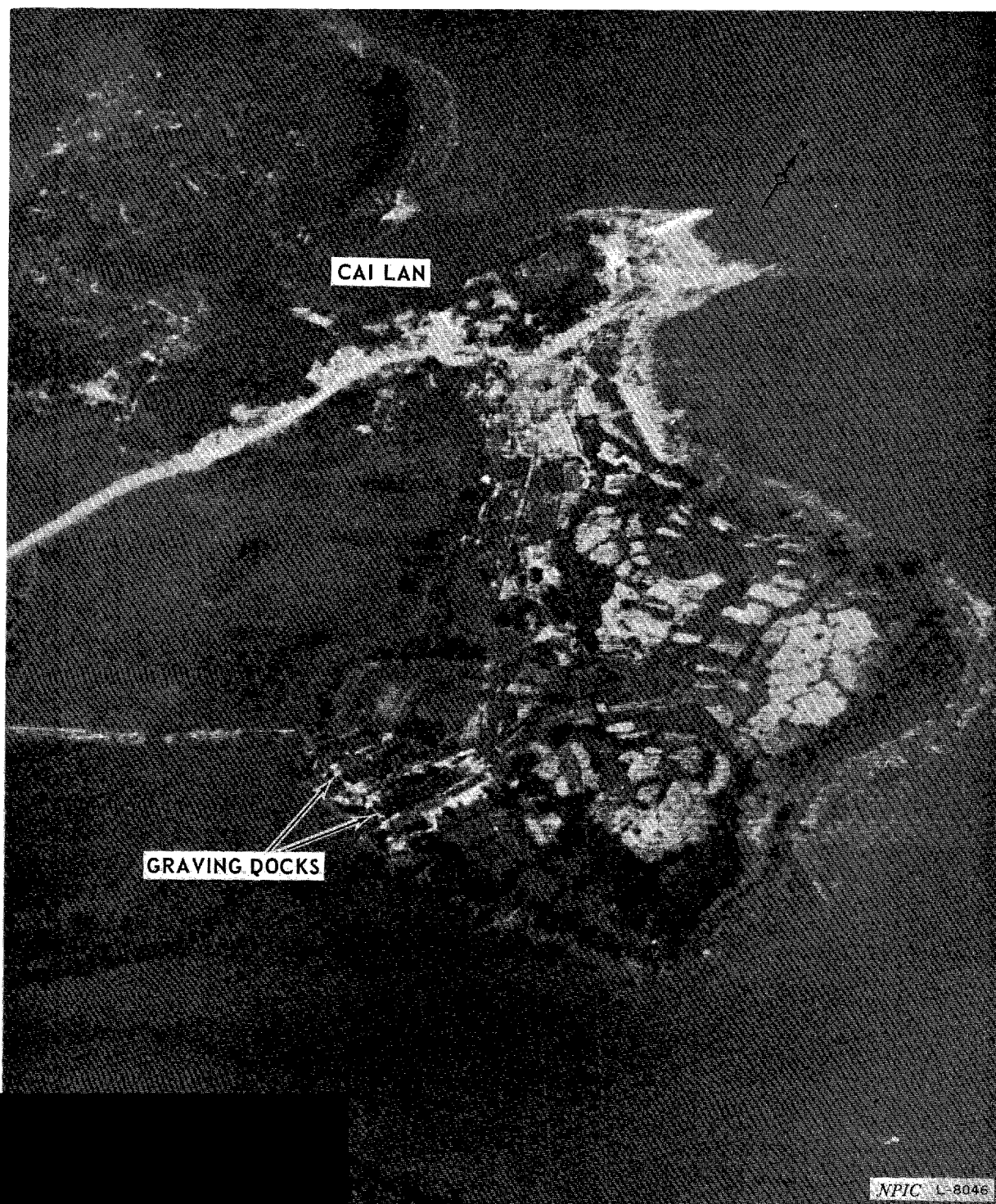
25X1D



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25X1C

R-90/67



25X1D

HON GAI SHIP REPAIR YARD WEST, NORTH VIETNAM

CONFIDENTIAL

25X1C

NO FOREIGN DISSEM

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25X1C

R-90/67

MAY 1967

NO FOREIGN DISSEM

BE NUMBER

UTM COORDINATES

205548N 1063335E
GEOGRAPHIC COORDINATES

25X1D

NAME: KIM SON SHIPYARD

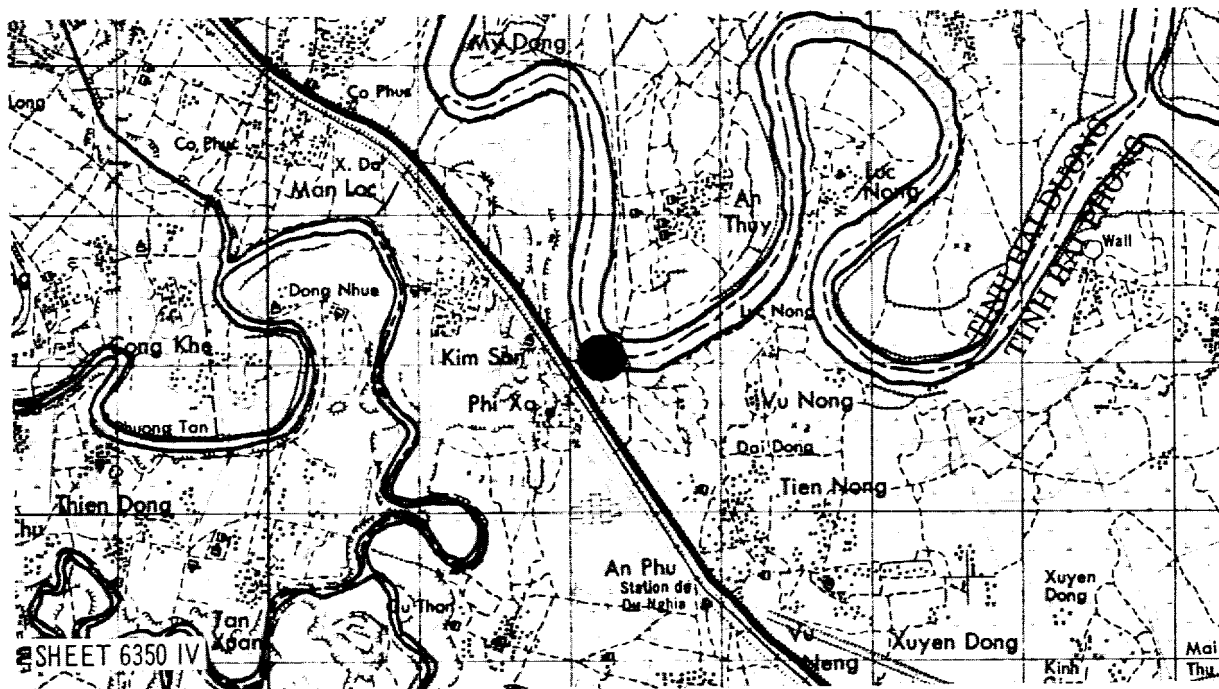
LOCATION: ON THE SOUTH BANK OF THE SONG KINH MON (RIVER), APPROXIMATELY 8 NM NW OF HAI PHONG SHIPYARD NO 4 DANCETTE

DESCRIPTION: FACILITY CONSISTS OF 1 TIDAL DRYDOCK AND 3 POSSIBLY ASSOCIATED BUILDINGS. AREA IS SERVED BY ROUTE 5, WHICH CONNECTS IT TO HAI PHONG. PHOTOGRAPHY OF [REDACTED] REVEALS 1 BARGE IN TIDAL DRYDOCK AND 1 BARGE JUST OFFSHORE.

25X1D

PHOTO REFERENCES:

25X1D



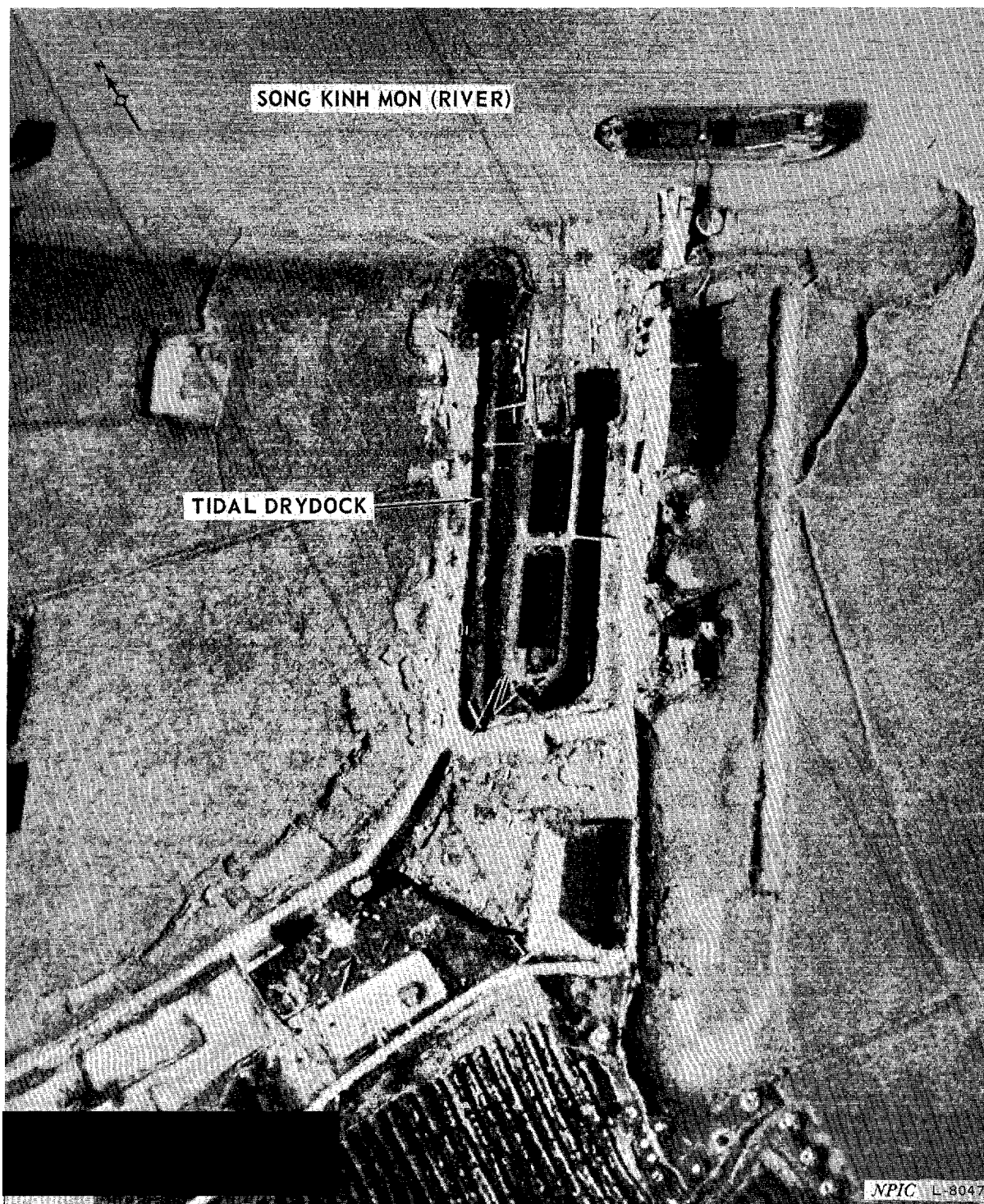
CONFIDENTIAL

NO FOREIGN DISSEM

CONFIDENTIAL

25X1C

R-90/67



25X1D

KIM SON SHIPYARD, NORTH VIETNAM

CONFIDENTIAL

25X1C

NO FOREIGN DISSEM

CONFIDENTIAL

25X1C

R-90/67

25X1D

25X1A

BE NUMBER

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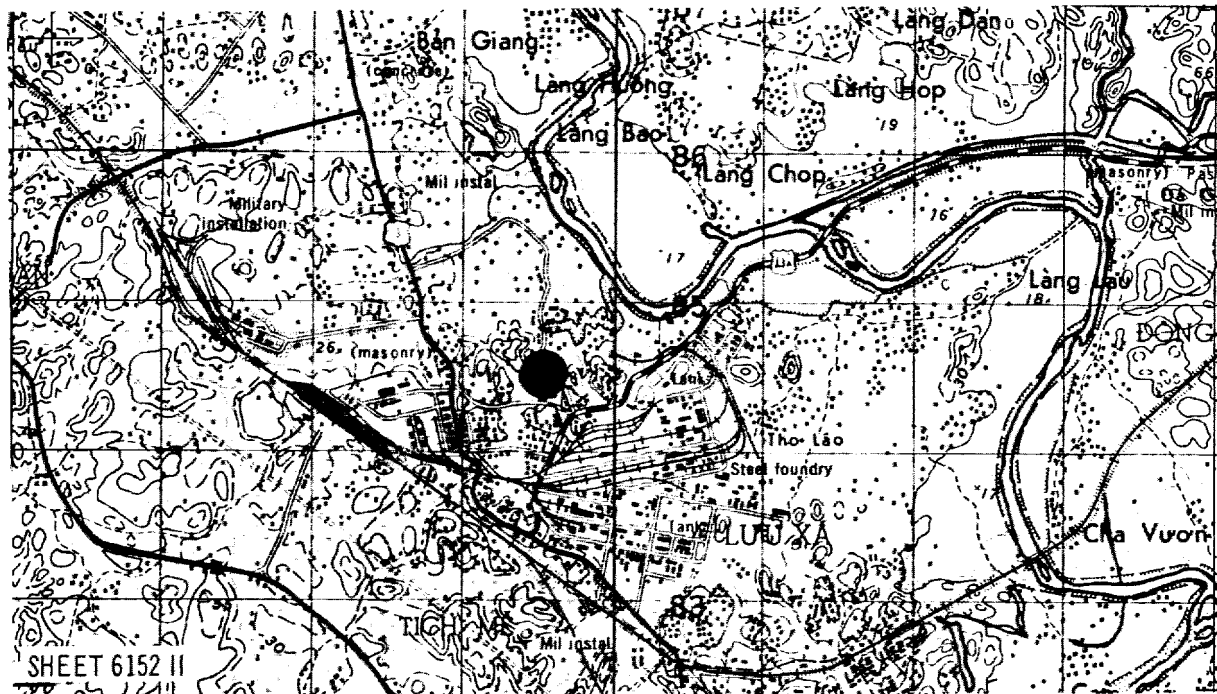
213342N 1055158E
GEOGRAPHIC COORDINATES

NAME: LANG LAU BARGE CONSTRUCTION YARD

LOCATION: ON THE NORTH EDGE OF THAI NGUYEN IRON AND STEEL COMBINE (BE NO

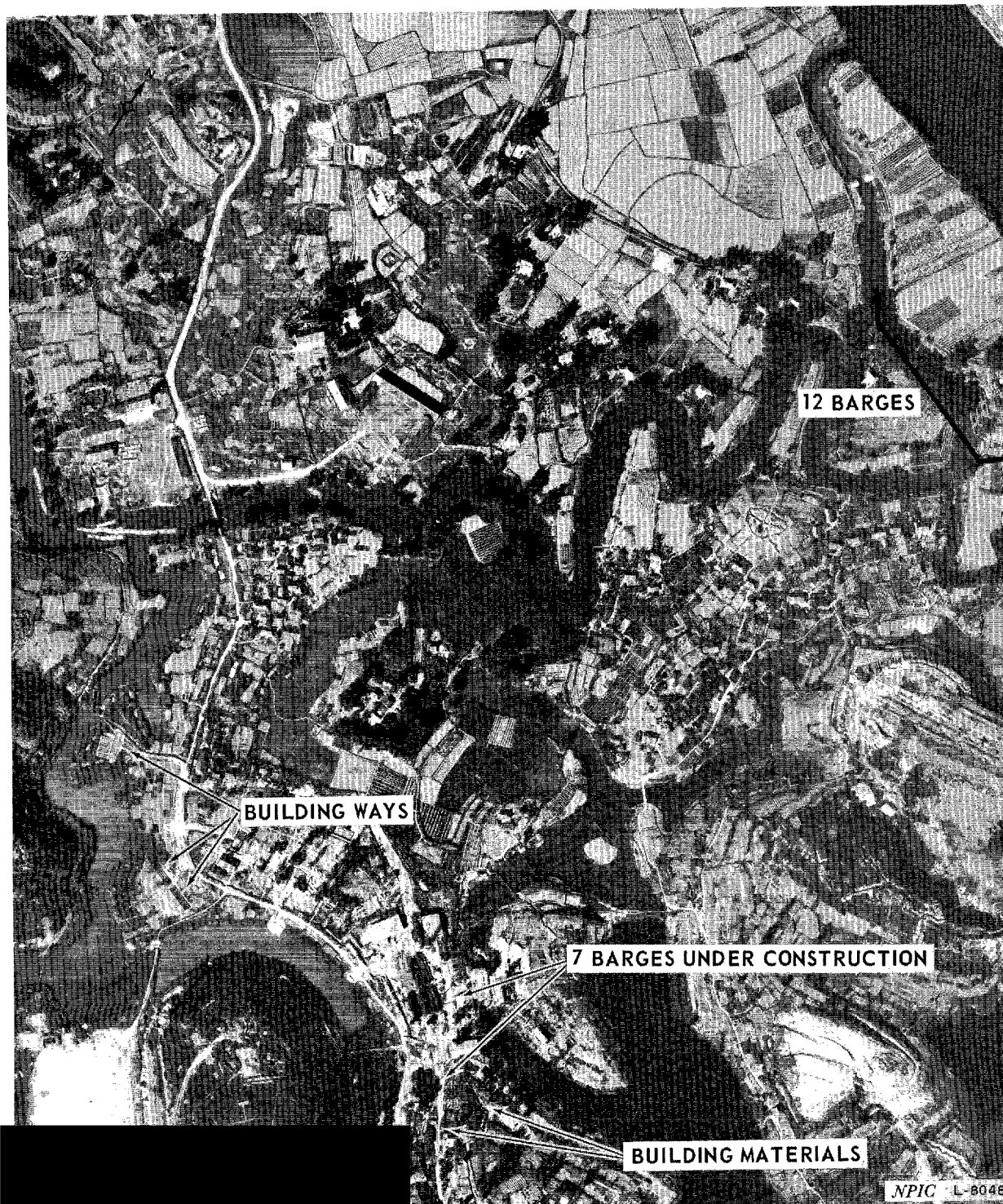
DESCRIPTION: YARD CONTAINS 10 BUILDING WAYS, AT LEAST 10 PROBABLE SHOP BUILDINGS, AND AN OPEN STORAGE YARD FOR CONSTRUCTION MATERIALS (INCLUDING SHEETS OF STEEL AND FABRICATED DECK SECTIONS). PHOTOGRAPHY OF REVEALS 14 COMPLETED BARGES AND 7 BARGES UNDER CONSTRUCTION ON BUILDING WAYS.

PHOTO REFERENCES:



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NO FOREIGN DISSEM



LANG LAU BARGE CONSTRUCTION YARD ,NORTH VIETNAM

B

SECTION B
PORTS/TRANSSHIPMENT POINTS

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MAY 1967

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PORTS/TRANSSHIPMENT POINTS**

25X1A

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1		Dap Cau Transshipment Point East, Song Cau	B1
2		Ha Noi Port Facilities	B3
3		Ha Chieu Transshipment Point, Song Da Bach	B5
4		Hoanh Ma Transshipment Point	B7
5		Nhu Y Trung Transshipment Point	B9
6		Uong Bi Transshipment Point, Song Thai Khe	B11
7		Port Redon Coastal Transshipment Point	B13
8		Gia Duc Transshipment Point, Song Leo	B15
9		Trang Kinh Transshipment Point, Song Thai	B17
10		Quang Yen Transshipment Point, Song Chanh	B19
11		Hon Gai Port Facilities	B21
12		Pho Cat Ba Coastal Transshipment Point	B23
13		Phu Ly Transshipment Point, Song Day	B25
14		Nam Thon Coastal Transshipment Point	B27
15		Cam Pha Port Facilities	B29
16		Bac Giang Powerplant Wharf	B31
17		Tam Xuan Thuong Transshipment Point	B33
18		Mong Duong Transshipment Point	B35
19		Lang Hung Transshipment Point	B37
20		Tiep Vo Transshipment Point	B39
21		Khe Bo Transshipment Point, Song Ca	B41
22		Phat Lat Transshipment Point	B43
23		Loi Dong Transshipment Point, Cua Cam	B45
24		Quang Khe Transshipment Point	B47

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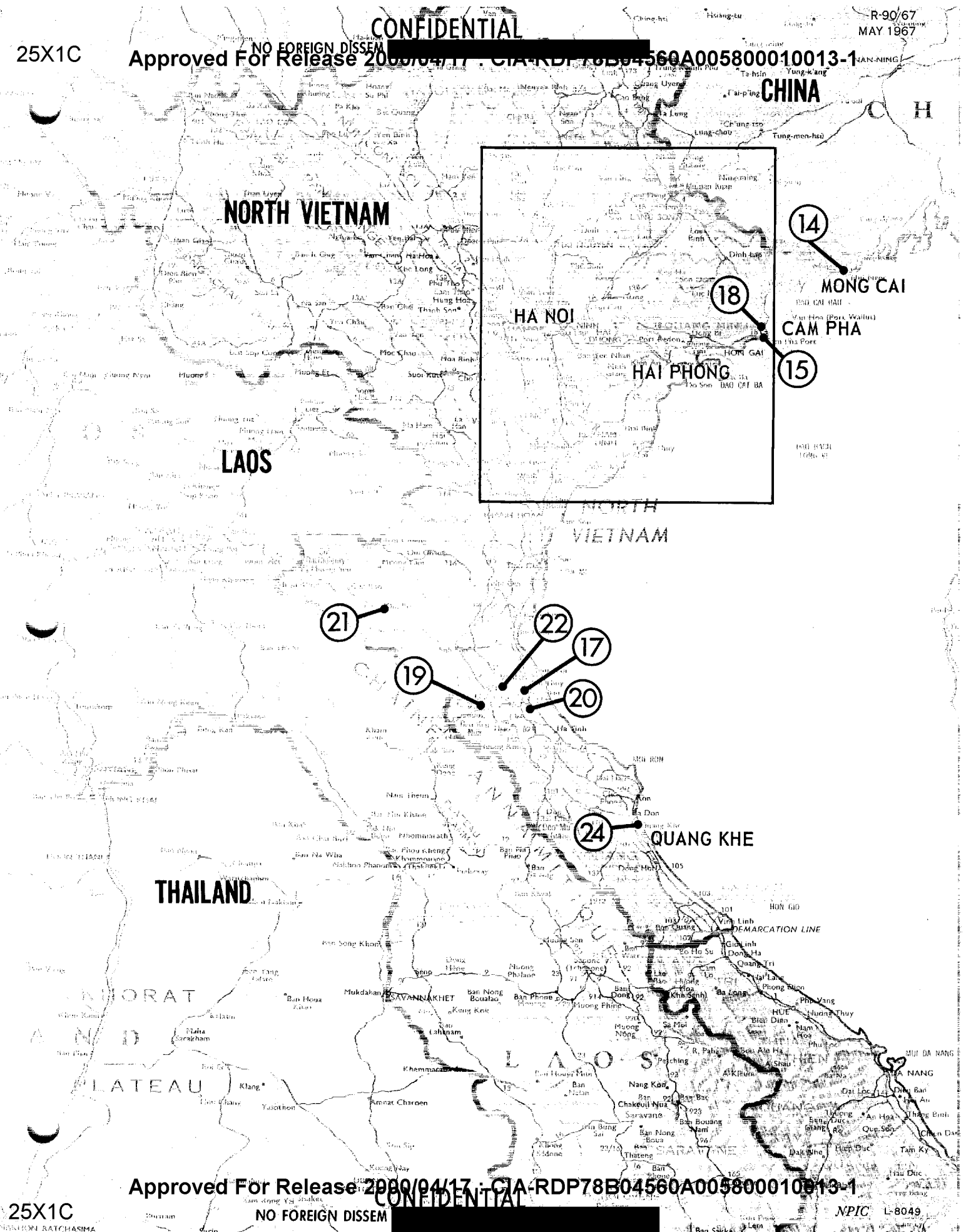
NO FOREIGN DISSEM

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R-90/67
MAY 1967

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Approved For Release 2000/04/17 : CIA-RDP78B04560A005800010013-1

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NO FOREIGN DISSEM

NPIC L-8049

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MAY 1967

Approved For Release 2000/04/11 : CIA-RDP78B02560A005800010013-1

25X1C

CHINA

NORTH VIETNAM

HA NOI

HAIPHONG

HAI PHONG

HON GAY

Approved For Release 2000/04/11 : CIA-RDP78B02560A005800010013-1

CONFIDENTIAL

NO FOREIGN DISSEM

NPIC L-8050

25X1A

BE NUMBER

UTM COORDINATES

211200N 1060617E
GEOGRAPHIC COORDINATES

25X1D

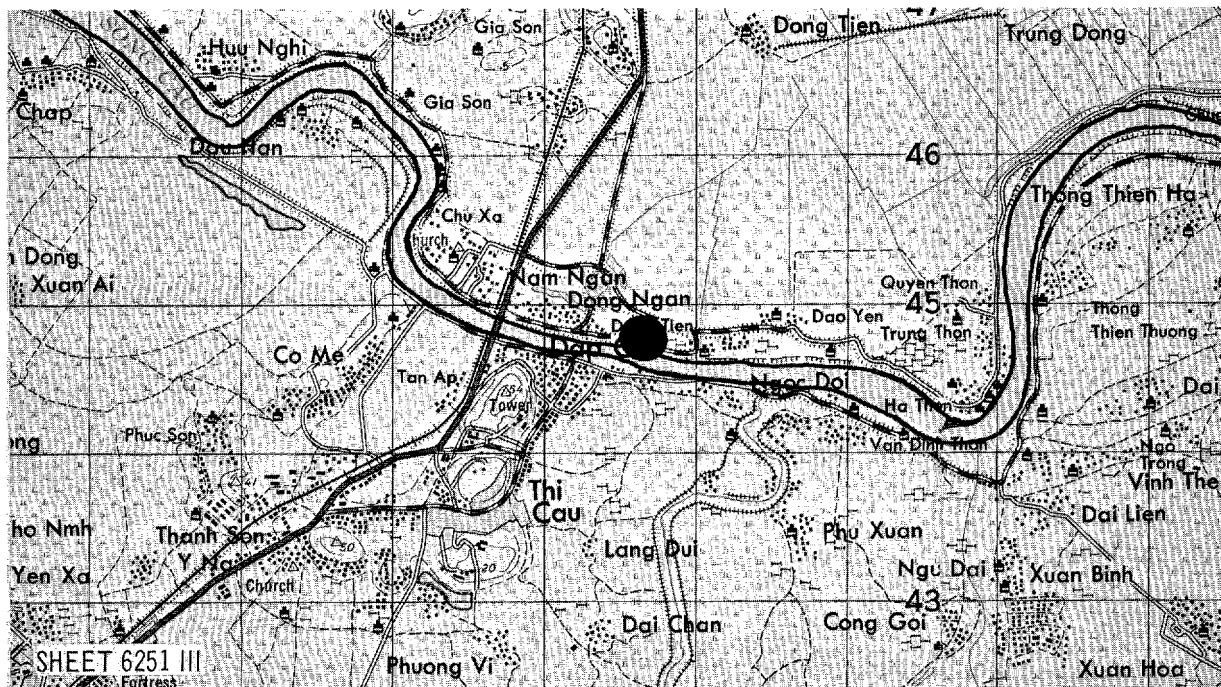
NAME: DAP CAU TRANSSHIPMENT POINT EAST, SONG CAU

LOCATION: ON THE SOUTH BANK OF THE SONG CAU (RIVER), 18 NM NE OF HA NOI

DESCRIPTION: FACILITY IS PRIMARILY A COAL PORT WITH FACILITIES TO TRANSSHIP FROM RIVER BARGE TO RAIL. THE PORT CONSISTS OF 3 OPEN STORAGE AREAS FOR COAL AND NUMEROUS PORTABLE CONVEYORS. A RAIL SPUR CONNECTS THE PORT WITH THE HA NOI/PING HSIANG RAIL LINE.

25X1D

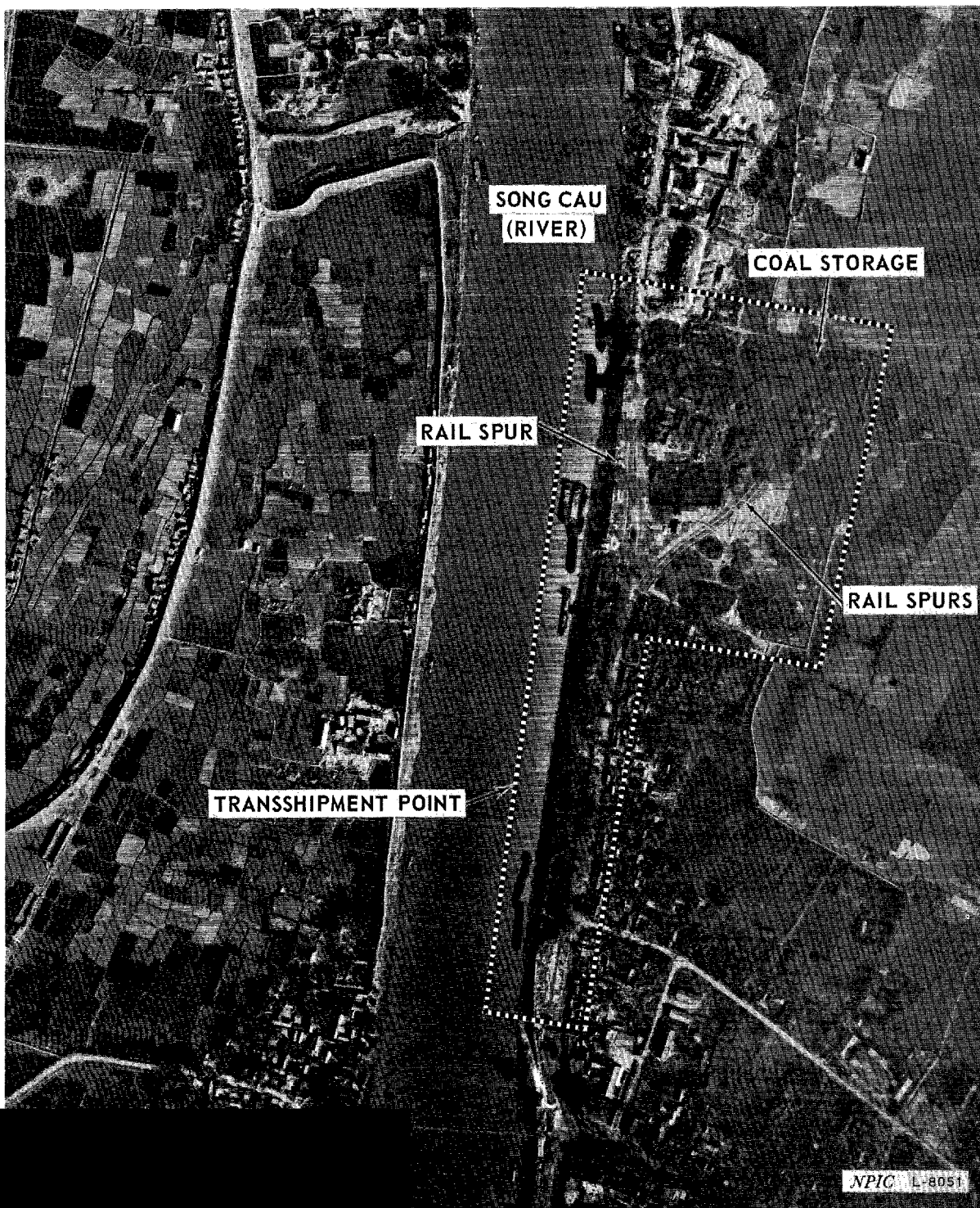
PHOTO REFERENCES:



CONFIDENTIAL

25X1C

R-90/67



DAP CAU TRANSSHIPMENT POINT EAST, SONG CAU, NORTH VIETNAM

CONFIDENTIAL

NO FOREIGN DISSEM

25X1A

BE NUMBER

UTM COORDINATES

210048N 1055211E
GEOGRAPHIC COORDINATES

25X1D

NAME: HA NOI PORT FACILITIES

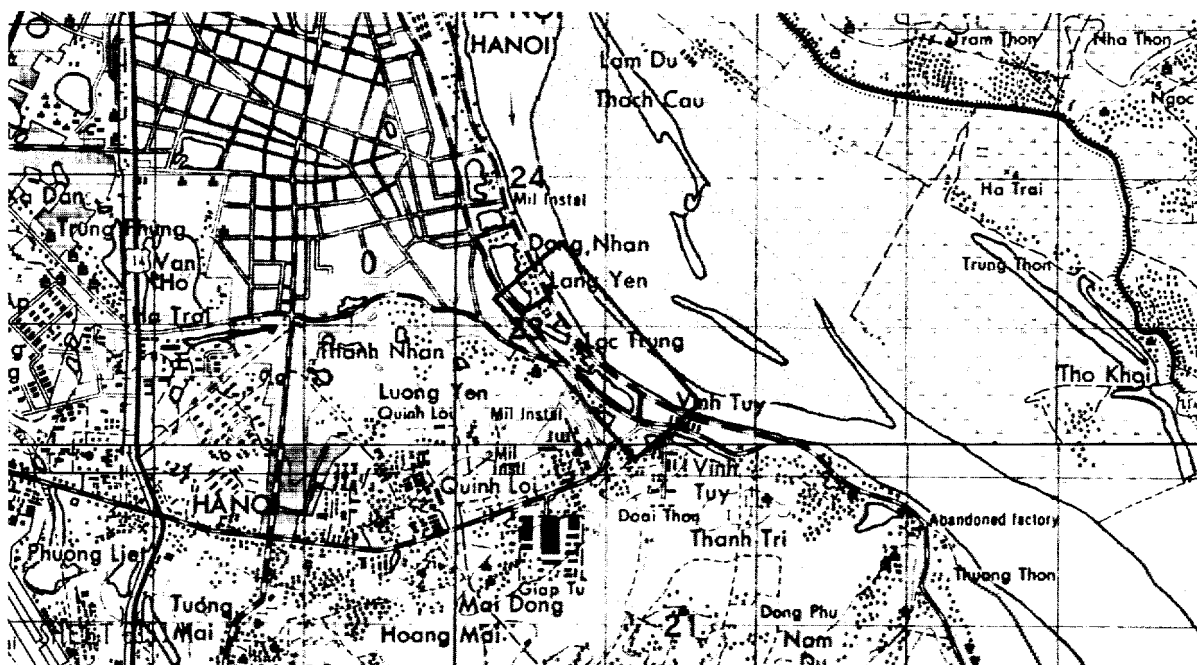
LOCATION: ON THE WEST BANK OF THE RED RIVER

DESCRIPTION: FACILITIES CONSIST OF A MARINE RAILWAY AT LANG YEN (UTM
[REDACTED], AN OFFSHORE WHARF AT THE MAIN TRANSSHIPMENT AREA, A COAL TRANS-
SHIPMENT AREA IMMEDIATELY SOUTH OF THE OFFSHORE WHARF, A BOAT BUILDING/RE-
PAIR FACILITY IMMEDIATELY NORTH OF VINH TUY STORAGE AREA, A COVERED MARINE
RAILWAY, AND 3 COVERED PROBABLE WAYS. (ONLY THE SOUTHERN PORTION OF THE
FACILITIES IS SHOWN ON PHOTO.)

25X1D

PHOTO REFERENCES:

25X1D

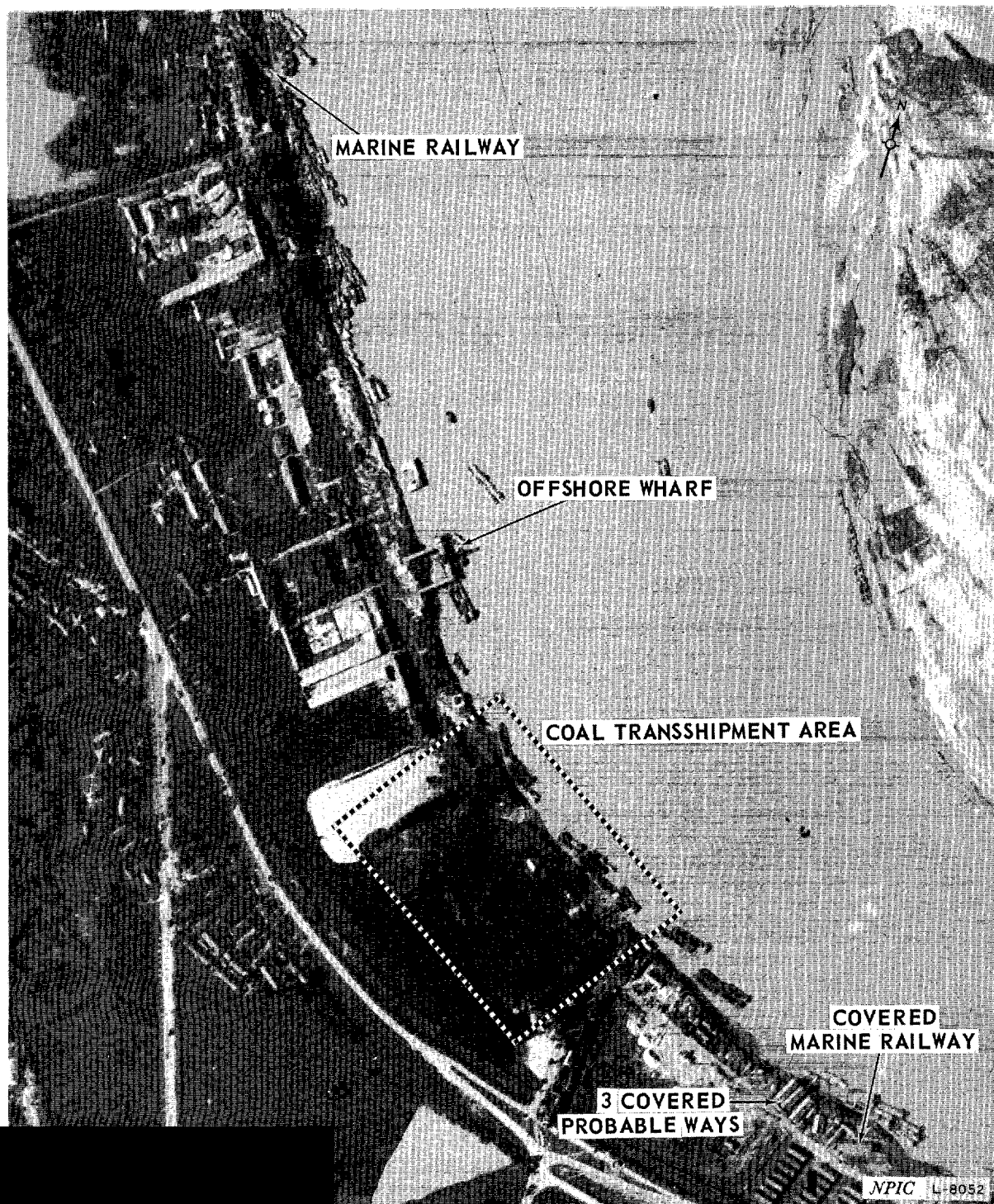


CONFIDENTIAL

25X1C

R-90/67

MAY 1967



HA NOI PORT FACILITIES, RED RIVER, NORTH VIETNAM

CONFIDENTIAL

NO FOREIGN DISSEM

25X1A

BE NUMBER

UTM COORDINATES

210254N 1063527E
GEOGRAPHIC COORDINATES

25X1D

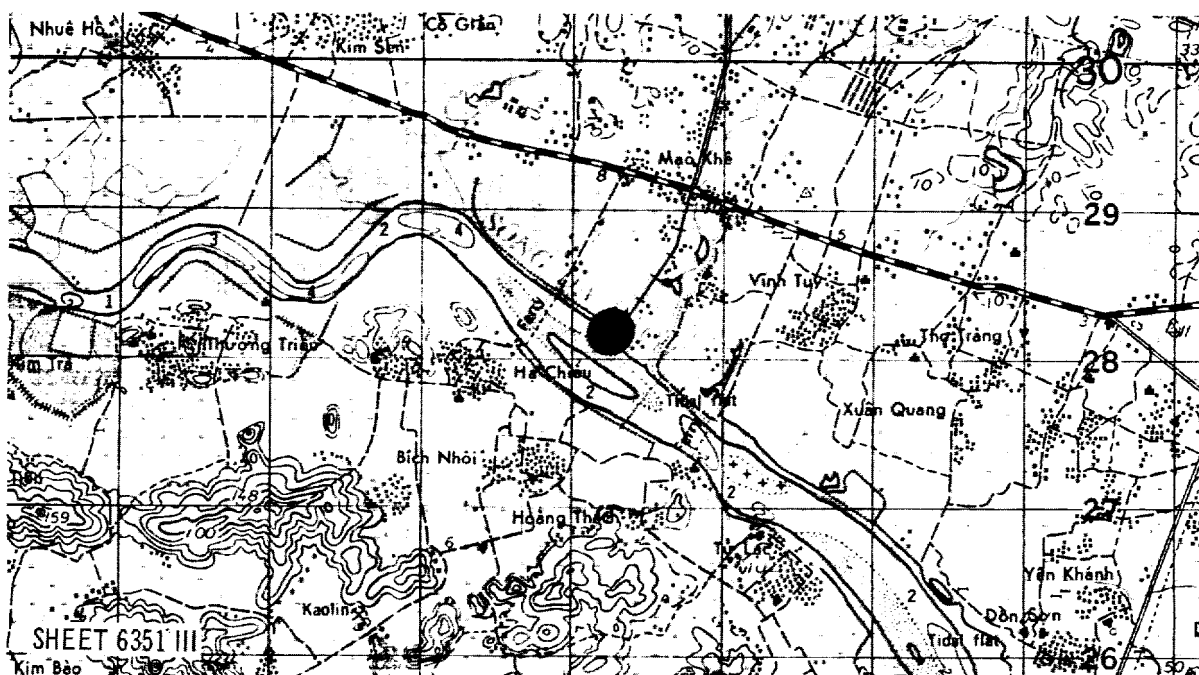
NAME: HA CHIEU TRANSSHIPMENT POINT, SONG DA BACH

LOCATION: ON THE NORTH BANK OF THE SONG HA (RIVER), 0.5 NM NE OF HA CHIEU

DESCRIPTION: AREA CONSISTS OF 3 PIERS WITH COAL CONVEYORS, 5 COVERED BUILDINGS, AND THE SOUTHERN TERMINUS OF A MINING RAILWAY.

25X1D

PHOTO REFERENCES:

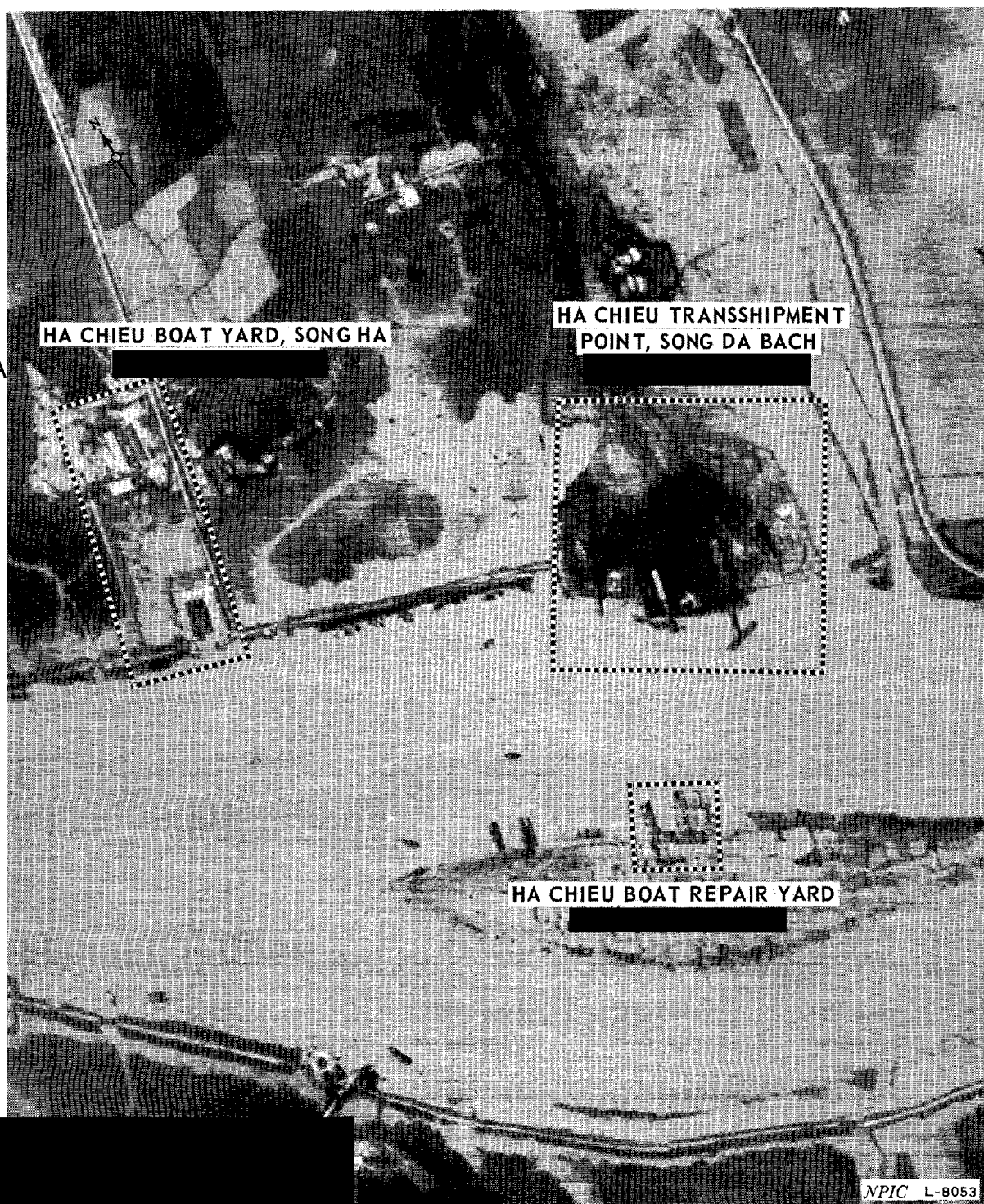


CONFIDENTIAL

25X1C

R-90/67

MAY 1967



HA CHIEU TRANSSHIPMENT POINT, SONG DA BACH, NORTH VIETNAM

CONFIDENTIAL

NO FOREIGN DISSEM

CONFIDENTIAL

25X1C

R-90/67

11/19/97

25X1A

BE NUMBER

UTM COORDINATES

210121N 1063954E
GEOGRAPHIC COORDINATES

25X1D

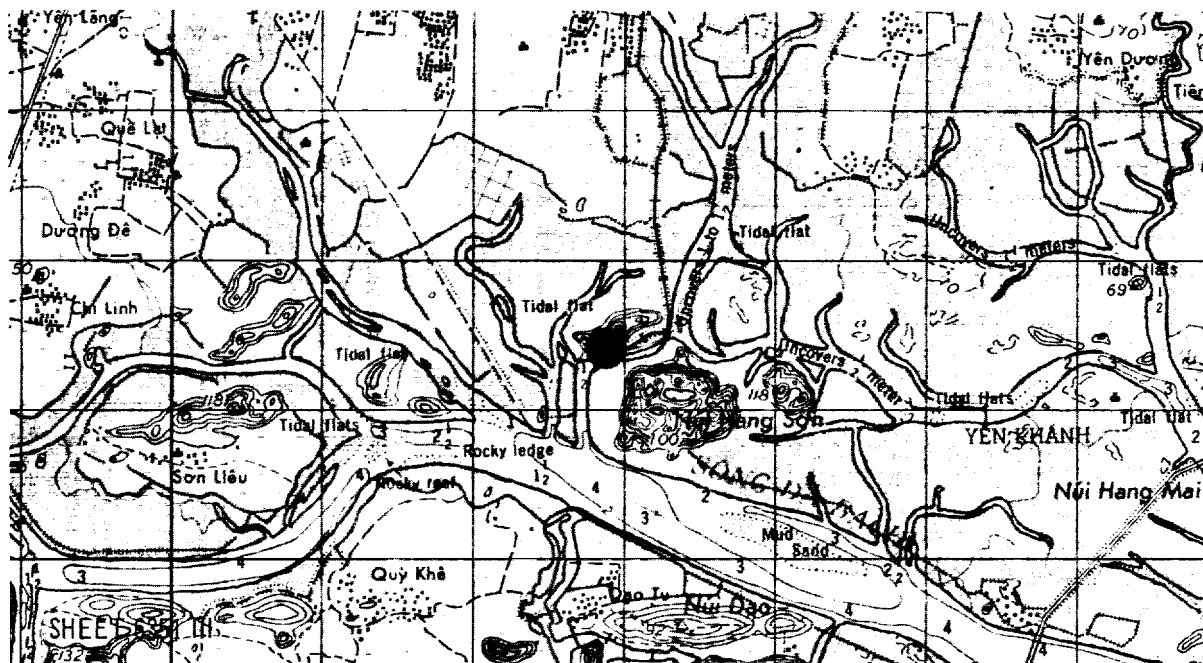
NAME: HOANH MA TRANSSHIPMENT POINT

LOCATION: ON A BRANCH OF THE SONG DA BACH (RIVER), 1.3 NM SOUTH OF LAM XA

DESCRIPTION: FACILITY IS A SMALL COAL LOADING PORT UNDER DEVELOPMENT TO SERVE THE TRANG BACH COAL MINES. THE PORT AREA CONSISTS OF A CONCRETE OFF-SHORE WHARF CAPABLE OF BERTHING 1 COAL BARGE, 4 BUILDINGS, 2 OTHER BUILDINGS UNDER CONSTRUCTION, AND 4 CONCRETE PIERS. THE 4 CONCRETE PIERS ARE POSSIBLY A LOADING RAMP IN THE EARLY STAGE OF CONSTRUCTION.

25X1D

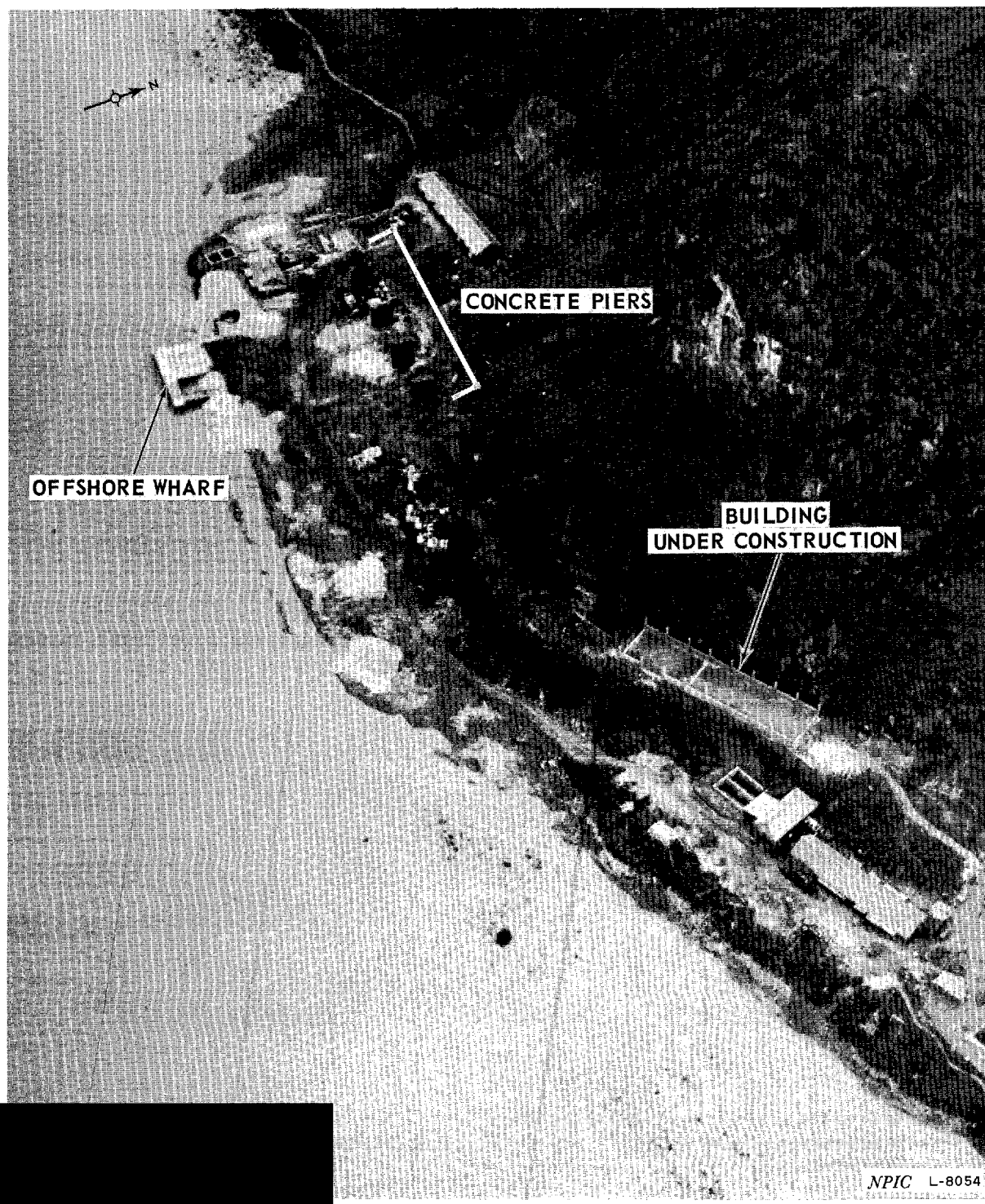
PHOTO REFERENCES:



CONFIDENTIAL

25X1C

NO FOREIGN DISSEM



HOANH MA TRANSSHIPMENT POINT, NORTH VIETNAM

25X1A

BE NUMBER

UTM COORDINATES

205952N 1064351E
GEOGRAPHIC COORDINATES

25X1D

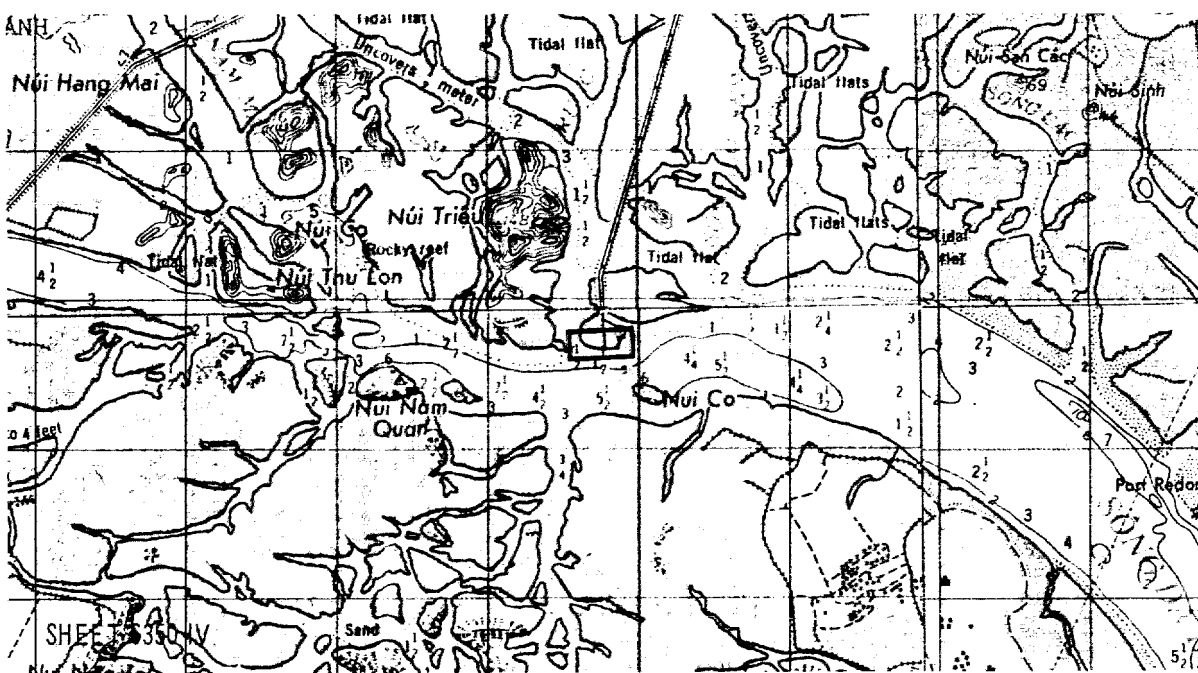
NAME: NHU Y TRUNG TRANSSHIPMENT POINT

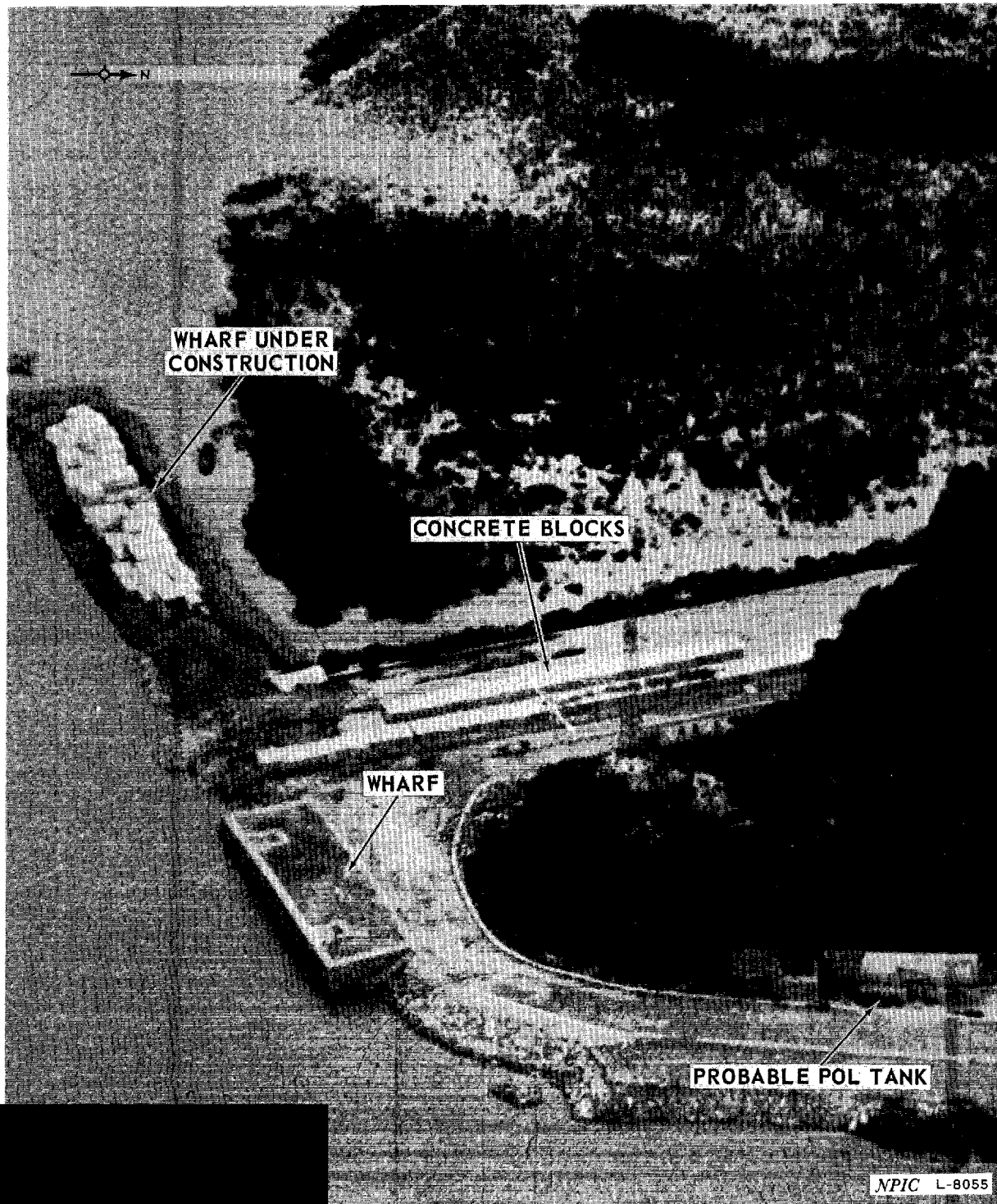
LOCATION: ON THE NORTH BANK OF THE SONG DA BACH (RIVER), 8.5 NM NNE OF HAI PHONG

DESCRIPTION: SMALL TRANSSHIPMENT POINT CONTAINS 3 SUPPORT BUILDINGS, 2 CONCRETE WHARVES (1 UNDER CONSTRUCTION), AND A BRIDGE CRANE (NOT SHOWN ON PHOTO). SUPPLIES SHIPPED BY BARGE OR LIGHTER COULD BE UNLOADED HERE AND TRUCKED TO ROUTE 18, APPROXIMATELY 2 NM NNW, FOR EAST/WEST MOVEMENT.

25X1D

PHOTO REFERENCES:





25X1D

NHU Y TRUNG TRANSSHIPMENT POINT, NORTH VIETNAM

25X1A

BE NUMBER

UTM COORDINATES

210200N 1064720E
GEOGRAPHIC COORDINATES

25X1D

NAME: UONG BI TRANSSHIPMENT POINT, SONG THAI KHE

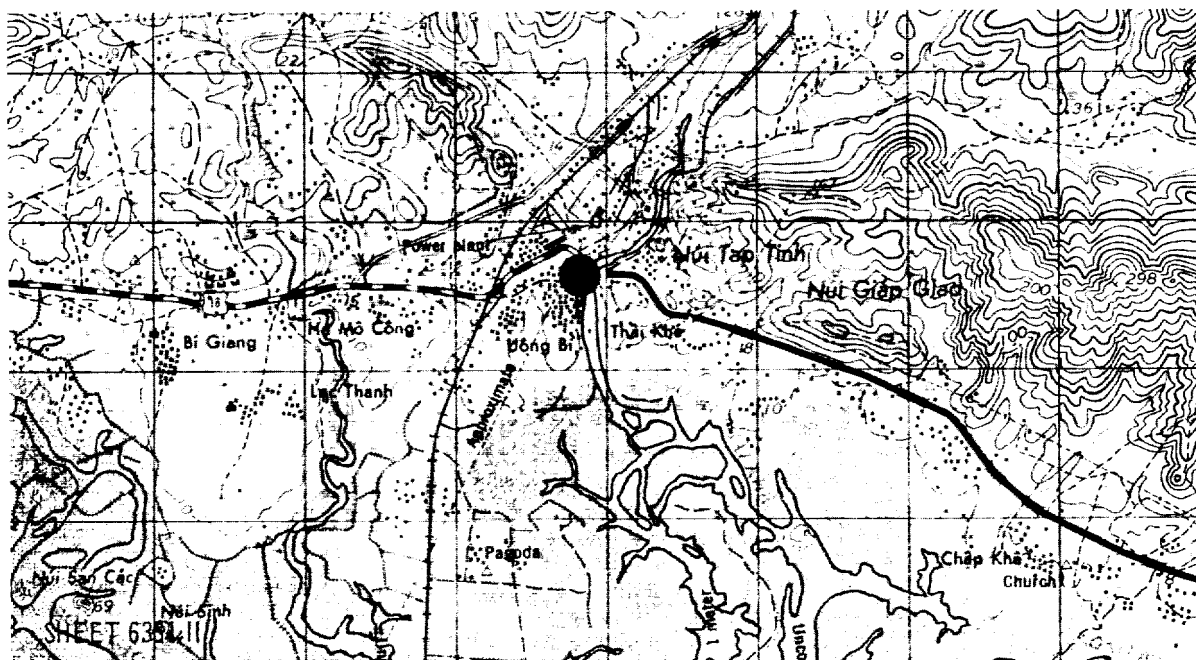
LOCATION: ON THE WEST BANK OF THE SONG THAI KHE (RIVER) IN UONG BI

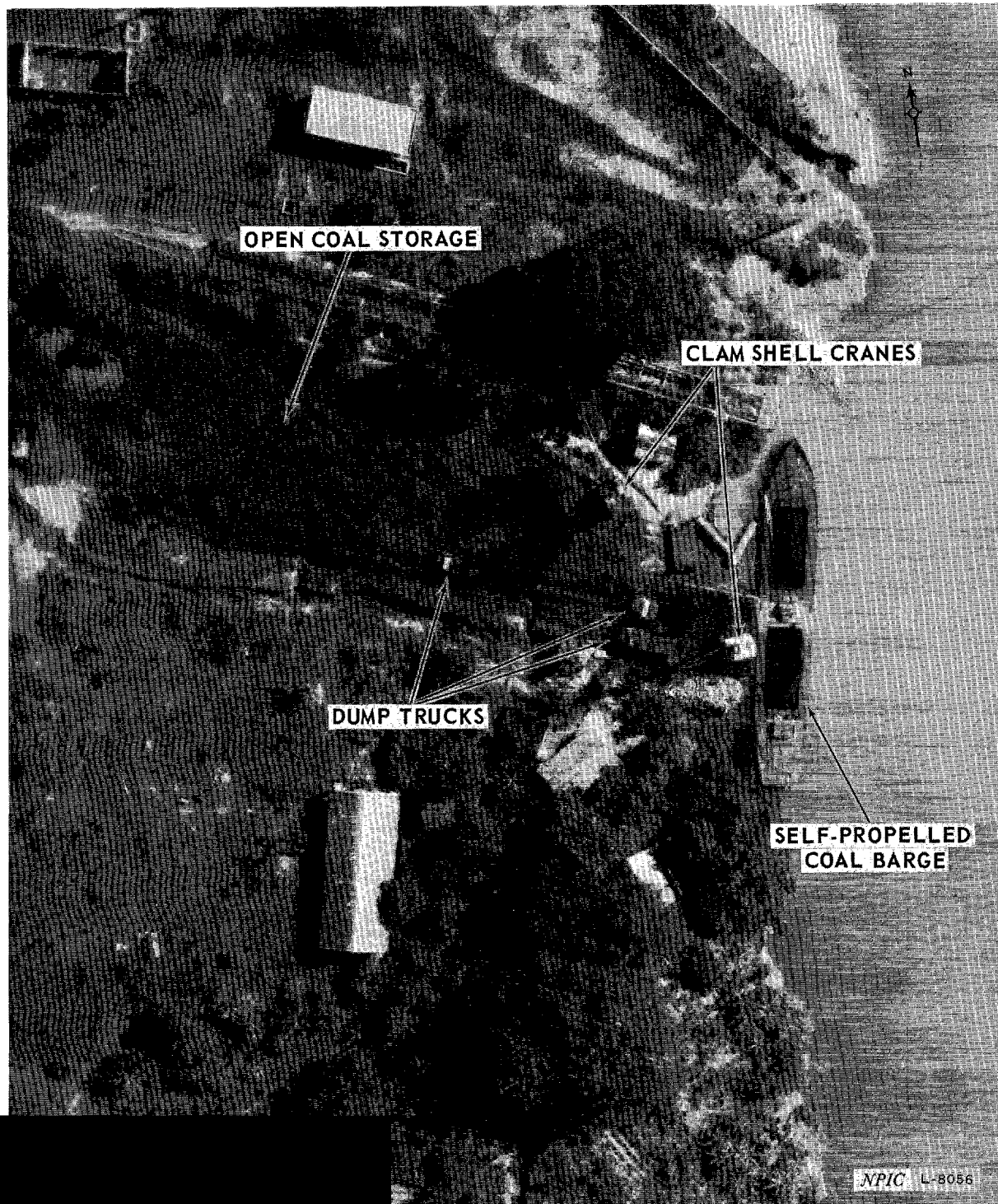
DESCRIPTION: FACILITY CONSISTS OF AN OPEN COAL STORAGE AREA, A SHORT SEGMENT OF REINFORCED RIVER BANK, AND AN OFFLOADING AREA SERVICED BY 2 CLAMSHELL CRANES. ADDITIONAL EQUIPMENT OBSERVED ON PHOTOGRAPHY OF [REDACTED] INCLUDES 3 DUMP TRUCKS AND A BULLDOZER. COAL SHIPPED TO THIS POINT IS PROBABLY USED AT THE UONG BI POWERPLANT, 0.3 NM NE.

25X1D

25X1D

PHOTO REFERENCES: [REDACTED]





UONG BI TRANSSHIPMENT POINT, SONG THAI KHE, NORTH VIETNAM

25X1A

BE NUMBER

UTM COORDINATES

205915N 1064605E
GEOGRAPHIC COORDINATES

25X1D

NAME: PORT REDON COASTAL TRANSSHIPMENT POINT

LOCATION: ON THE NORTH BANK OF THE SONG DA BACH (RIVER) 8.7 NM NE OF HAI PHONG, AND 2.8 NM SSW OF UONG BI

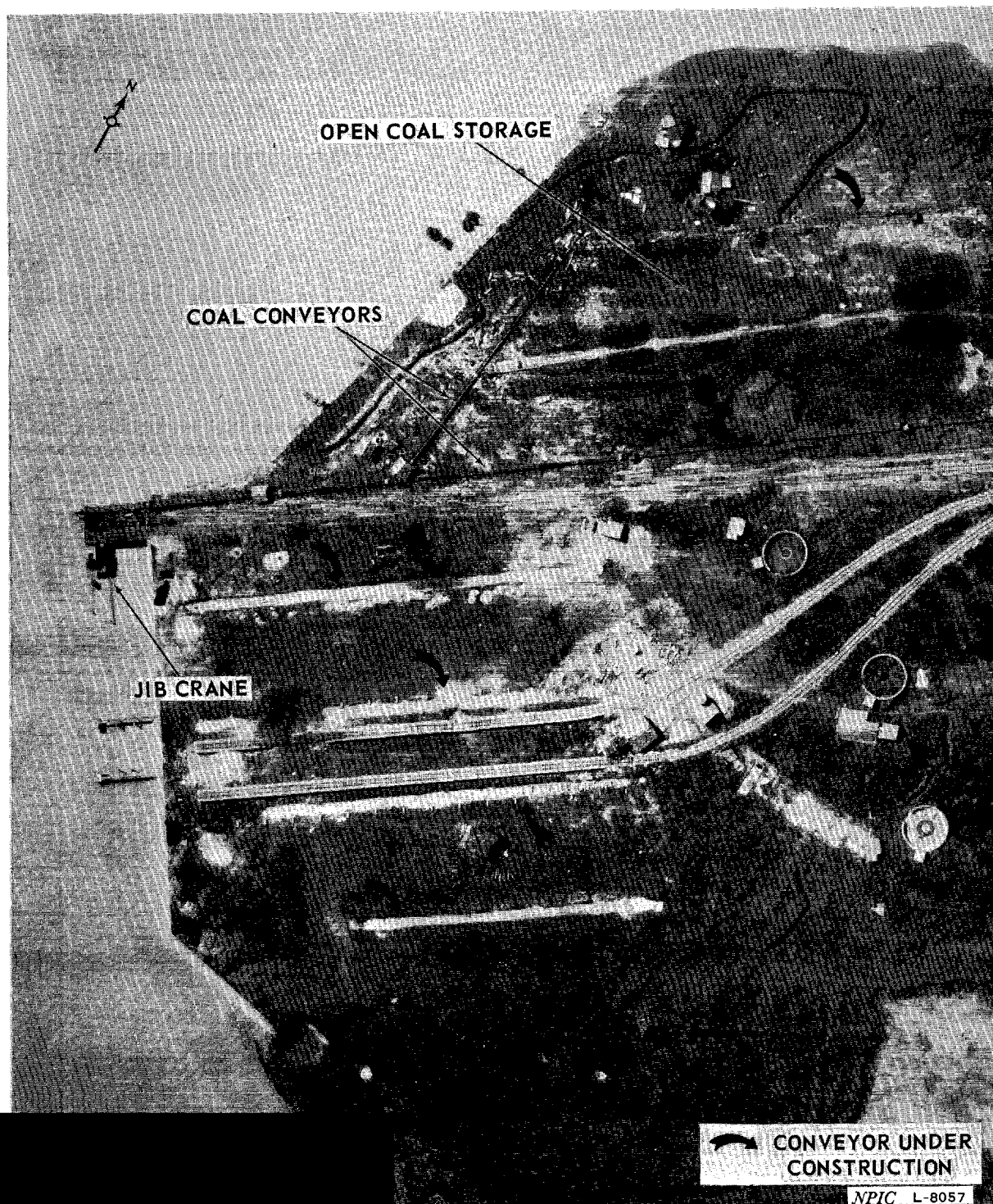
DESCRIPTION: FACILITY IS USED PRIMARILY TO LOAD ORE FROM THE VANG DANH MINES APPROXIMATELY 7 NM NE. WATER CRAFT AS LARGE AS A RIVER BARGE OR LIGHTER CAN BE ACCOMODATED. A RAIL LINE FROM THE NORTH SERVES THE PORT AREA, WITH 5 RAIL SPURS LEADING TO THE LOADING PIER AREA ON THE TIDAL FLAT. FACILITIES CONSIST OF A CONVEYOR LOADING SYSTEM, A PROBABLE FIXED JIB CRANE ON THE PIER, AND SEVERAL SUPPORT BUILDINGS. TWO ADDITIONAL RAIL SPURS AND 5 CONVEYOR BELT SYSTEMS LEADING TO THE PIER ARE UNDER CONSTRUCTION ON PHOTOGRAPHY OF

25X1D

25X1D

PHOTO REFERENCES:





25X1D

PORT REDON COASTAL TRANSSHIPMENT POINT, NORTH VIETNAM

25X1A

BE NUMBER

UTM COORDINATES

205810N 1064555E
GEOGRAPHIC COORDINATES

25X1D

NAME: GIA DUC TRANSSHIPMENT POINT, SONG LEO

LOCATION: 0.7 NM SE OF GIA DUC, 7.9 NM NNE OF HAI PHONG, AT THE CONFLUENCE OF THE SONG LEO AND SONG DA BACH (RIVERS)

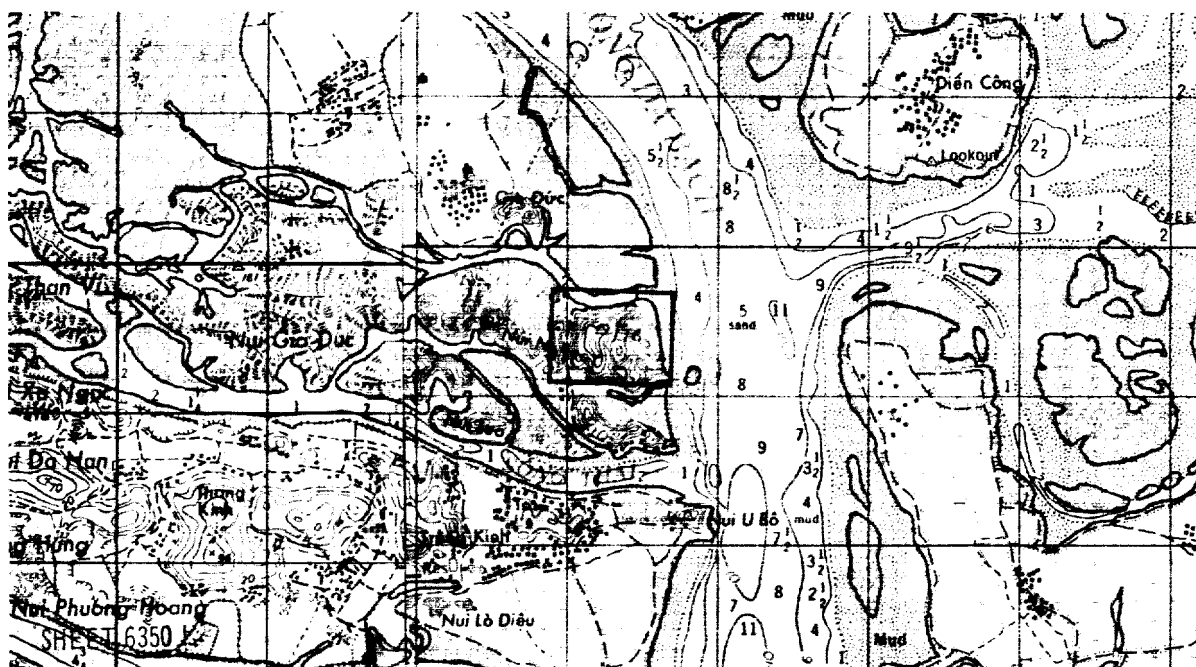
DESCRIPTION: PRIMARILY A LIMESTONE SHIPPING PORT, THE AREA CONTAINS SEVERAL CONVEYORS FOR BARGE LOADING, 6 BUILDINGS, AND A QUAY ON THE WEST SIDE CAPABLE OF ACCOMODATING 5 BARGES OF THE TYPE SHOWN ON PHOTO. PHOTOGRAPHY OF [REDACTED] ALSO REVEALS AN ORE CRUSHER, A DISASSEMBLED CRANE, AND 8 SELF-PROPELLED BARGES.

25X1D

25X1D

PHOTO REFERENCES: [REDACTED]

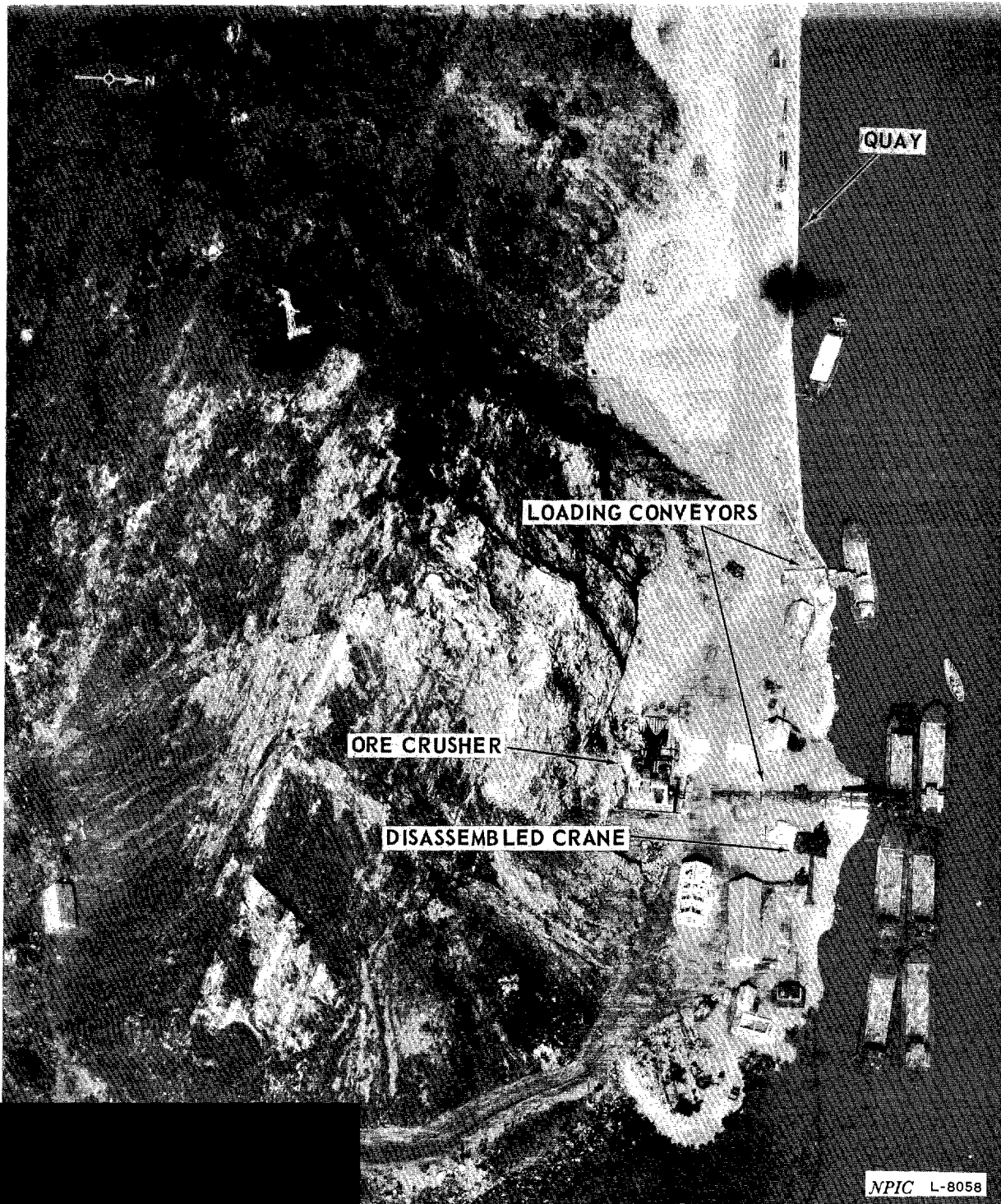
25X1D



CONFIDENTIAL

25X1C

R-90/67



GIA DUC TRANSSHIPMENT POINT, SONG LEO, NORTH VIETNAM

CONFIDENTIAL

NO FOREIGN DISSEM

BE NUMBER

UTM COORDINATES

205740N 1064600E
GEOGRAPHIC COORDINATES

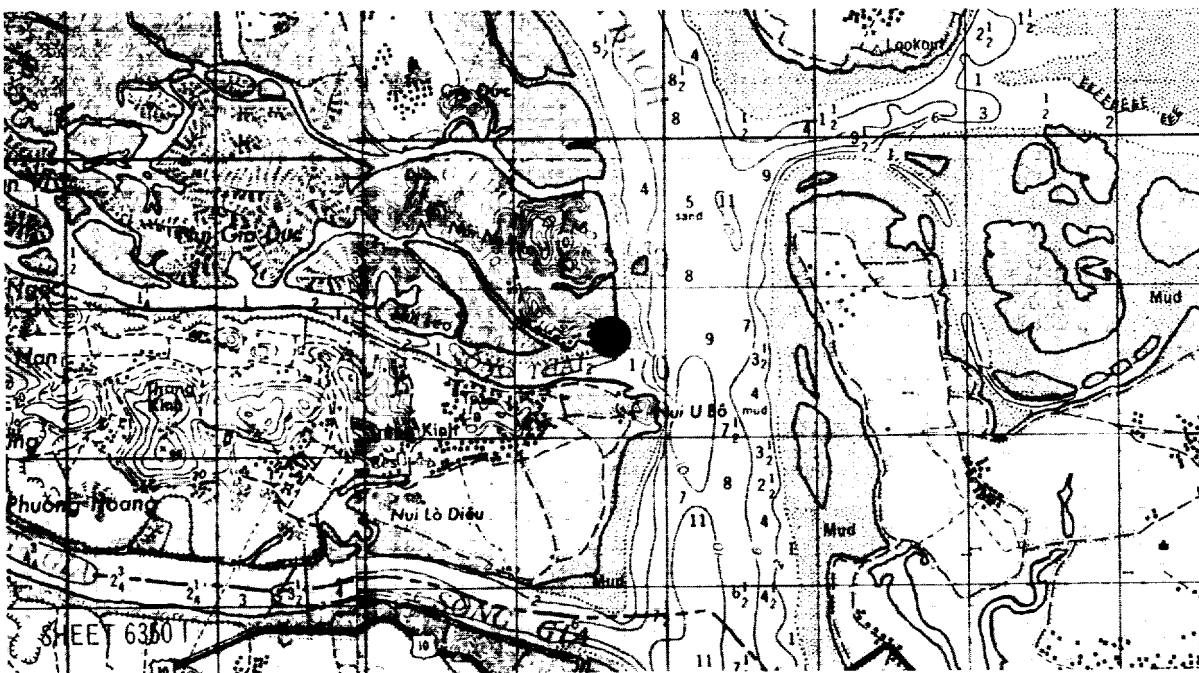
25X1D

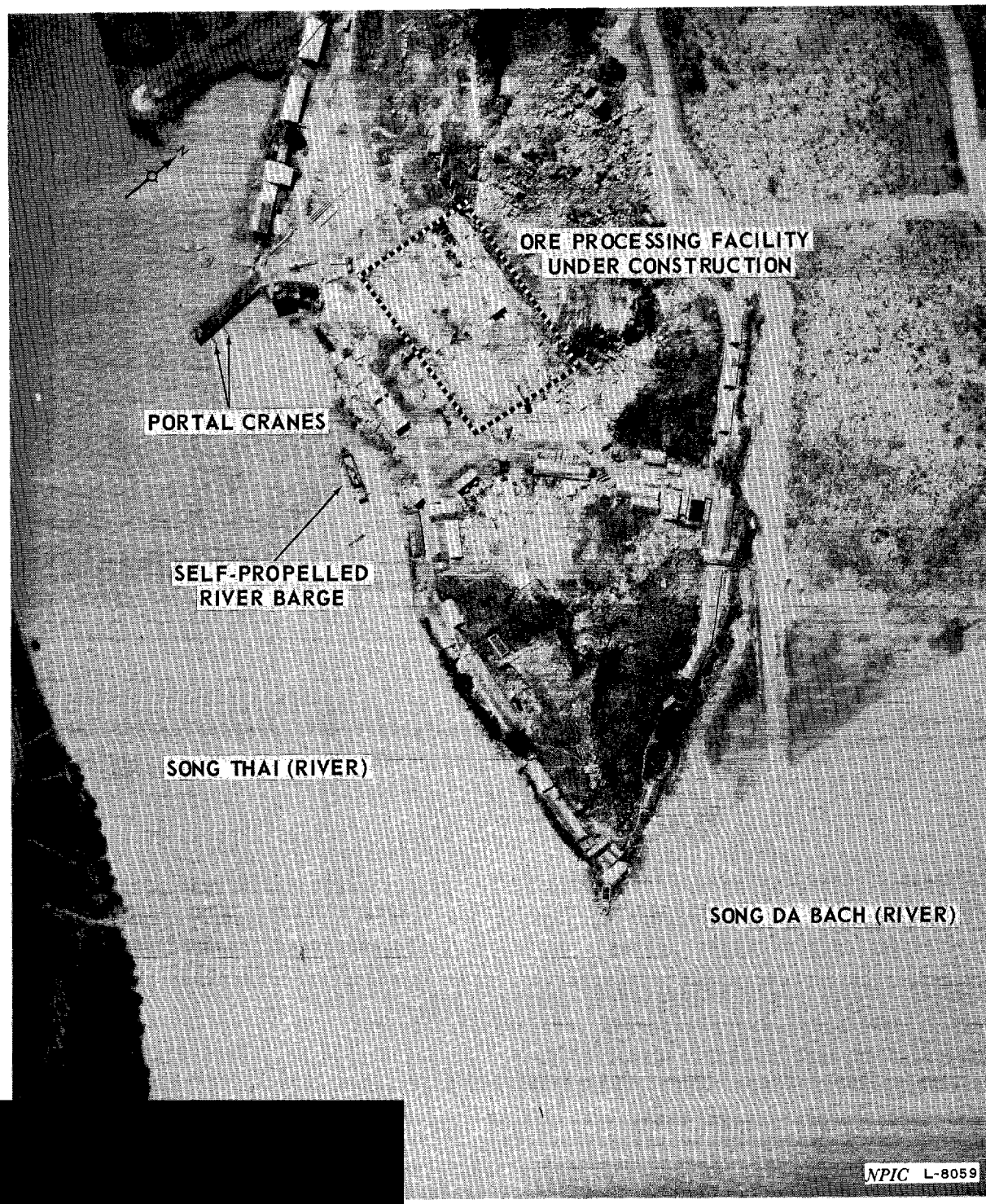
LOCATION: 0.3 NM NE OF TRANG KINH, AT THE CONFLUENCE OF THE SONG DA BACH
AND SONG THAI (RIVERS)

DESCRIPTION: FACILITY, PRIMARILY ASSOCIATED WITH ORE PROCESSING, EXTRACTION, AND SHIPPING IN THE AREA, CONTAINS 2 PORTAL CRANES ON PIER, AN ORE PROCESSING FACILITY UNDER CONSTRUCTION, AND 41 BUILDINGS. ADDITIONAL EQUIPMENT IN THE AREA INCLUDES 2 BULLDOZERS, A 3RD CRANE, 3 TRUCKS, AND BUILDING MATERIALS SCATTERED THROUGHOUT AREA.

25X1D

PHOTO REFERENCES:





TRANG KINH TRANSSHIPMENT POINT, SONG THAI, NORTH VIETNAM

25X1A

BE NUMBER

UTM COORDINATES

205602N 1064825E
GEOGRAPHIC COORDINATES

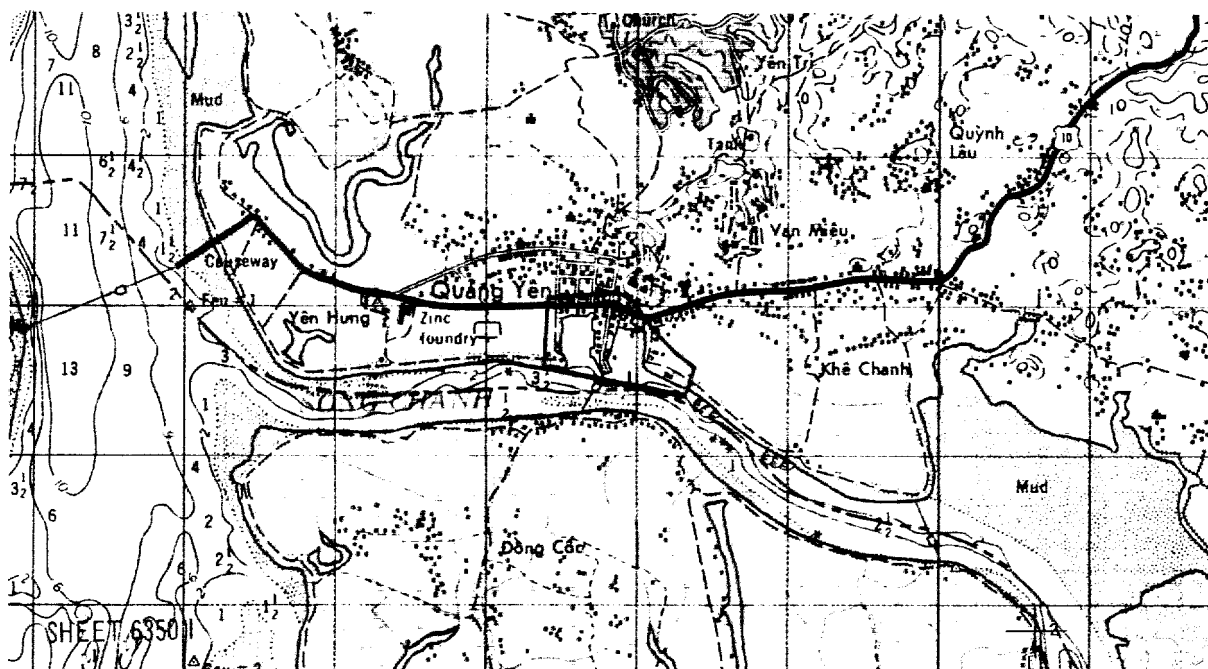
25X1D

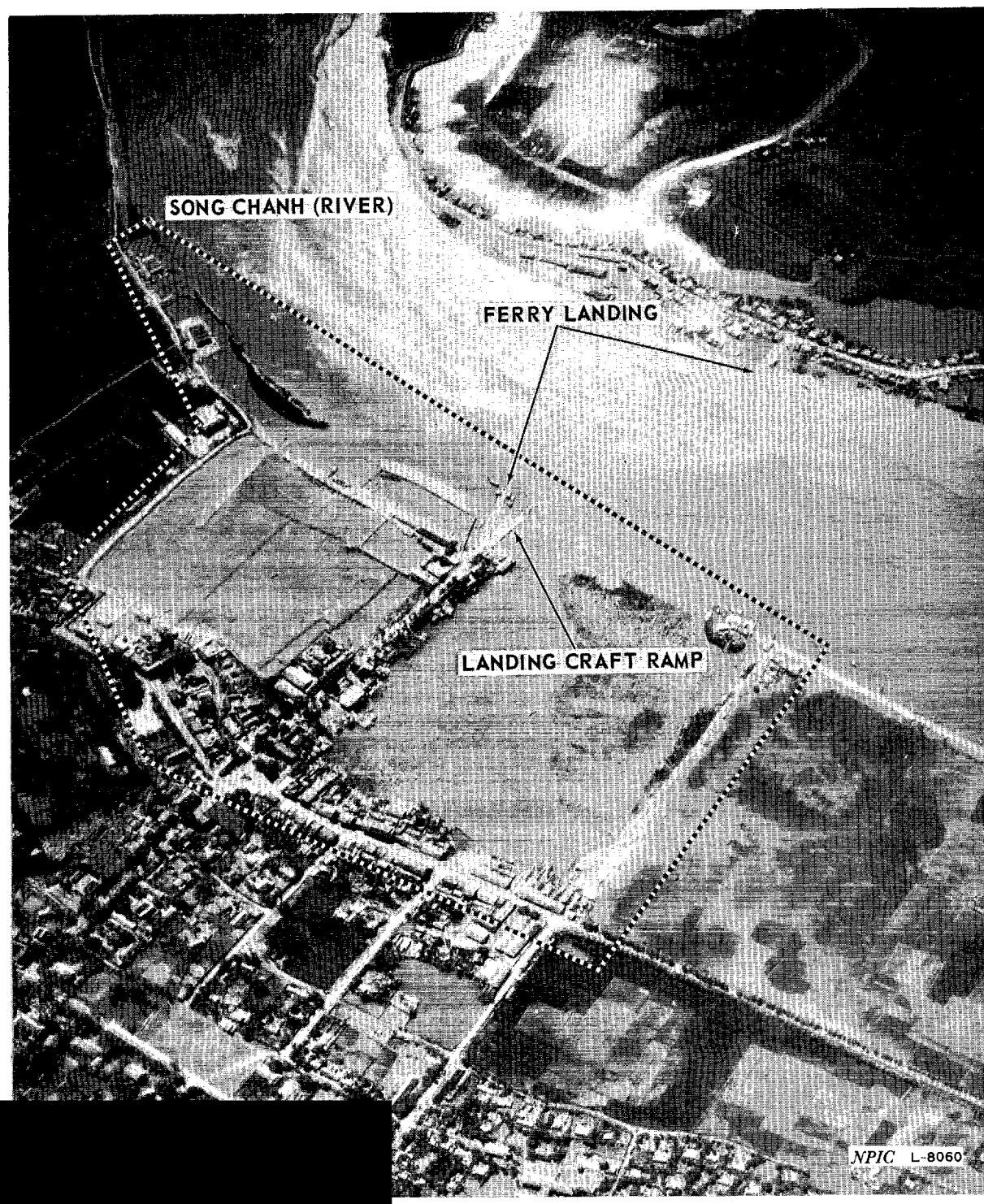
NAME: QUANG YEN TRANSSHIPMENT POINT, SONG CHANH

LOCATION: ON SOUTH SIDE OF QUANG YEN, ON THE SONG CHANH (RIVER)

DESCRIPTION: SMALL RIVER PORT CONSISTS OF AT LEAST 24 STORAGE BUILDINGS, A FERRY LANDING, AND A LANDING CRAFT RAMP.

25X1D PHOTO REFERENCES:





QUANG YEN TRANSSHIPMENT POINT, SONG CHANH, NORTH VIETNAM

25X1A

BE NUMBER

UTM COORDINATES

205705N 1070429E
205659N 1070520E
GEOGRAPHIC COORDINATES

25X1D

NAME: HON GAI PORT FACILITIES

LOCATION: ON THE BAIE D'ALONG

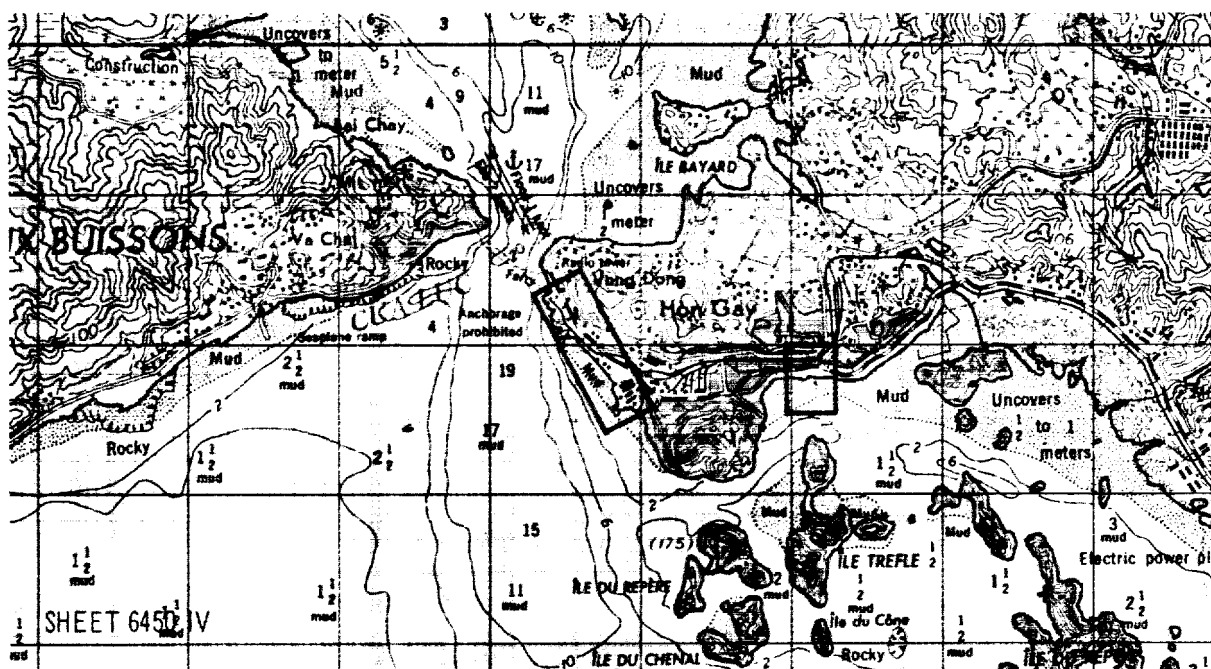
25X1D

DESCRIPTION: PORT IS COMPOSED OF A COAL TRANSshipment POINT (AREA A) AND A SHIPPING AREA UNDER CONSTRUCTION ON THE WEST SIDE OF TOWN (AREA B). AREA A, AT UTM [REDACTED] CONSISTS OF A COAL TREATMENT FACILITY, WAREHOUSE WHARF, AND 3 LARGE COAL WHARVES (2 WITH 2 GOOSENECK PORTAL CRANES EACH). RAIL SPURS LEAD FROM THE MINES, 2.5 NM EAST, TO THE WHARVES. AREA B, AT [REDACTED] CONSISTS OF A PIER, SHOWN UNDER CONSTRUCTION, AND A LOADING PIER WITH 5 CONVEYOR BELTS.

25X1D

25X1D

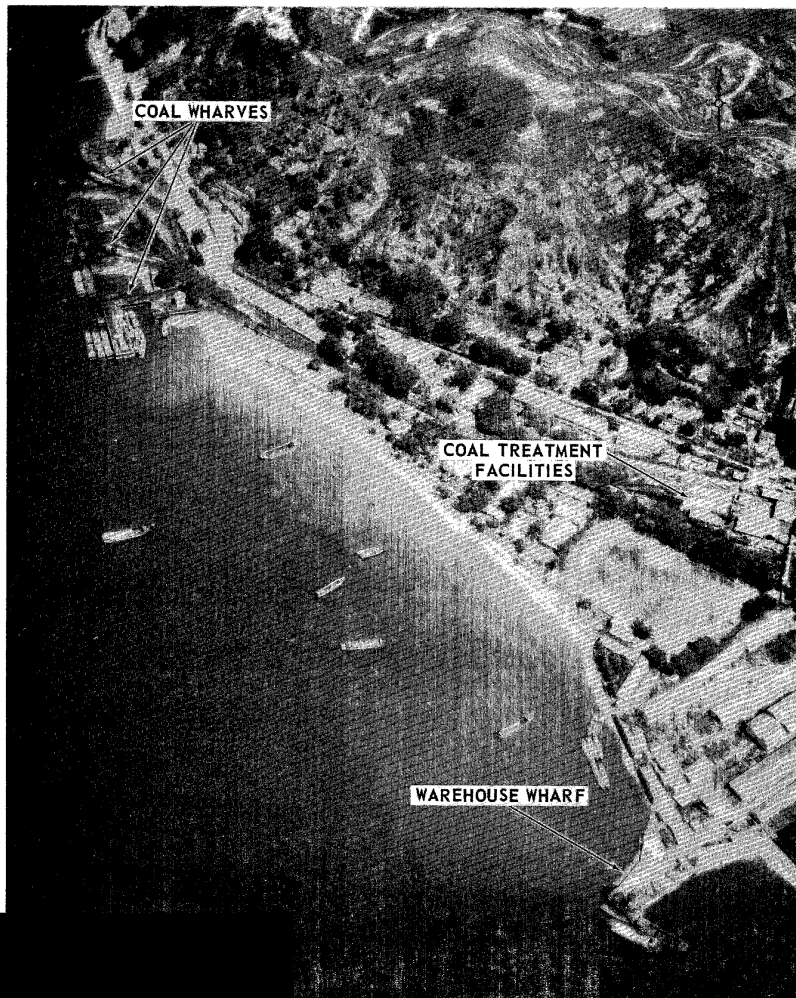
PHOTO REFERENCES: [REDACTED]



NO FOREIGN DISSEM

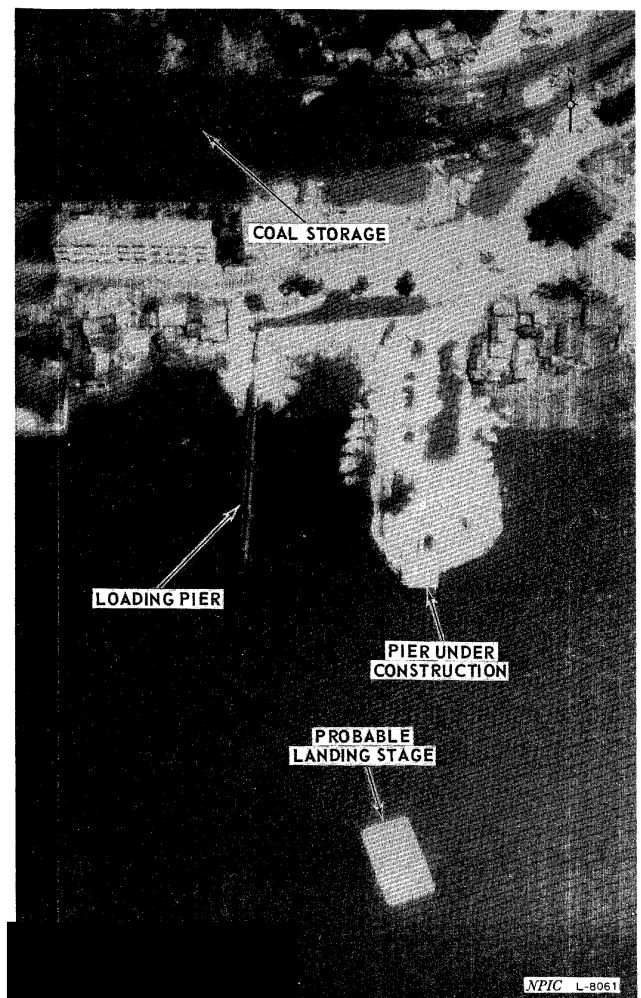
CONFIDENTIAL

R-90/67
MAY 1967



HON GAI PORT FACILITIES, NORTH VIETNAM

25X1D



25X1D

CONFIDENTIAL

25X1C

25X1C

CONFIDENTIAL

NO FOREIGN DISSEM

R-90/67
MAY 1967

25X1A

BE NUMBER

UTM COORDINATES

204322N 1070325E
GEOGRAPHIC COORDINATES

25X1D

NAME: PHO CAT BA COASTAL TRANSSHIPMENT POINT

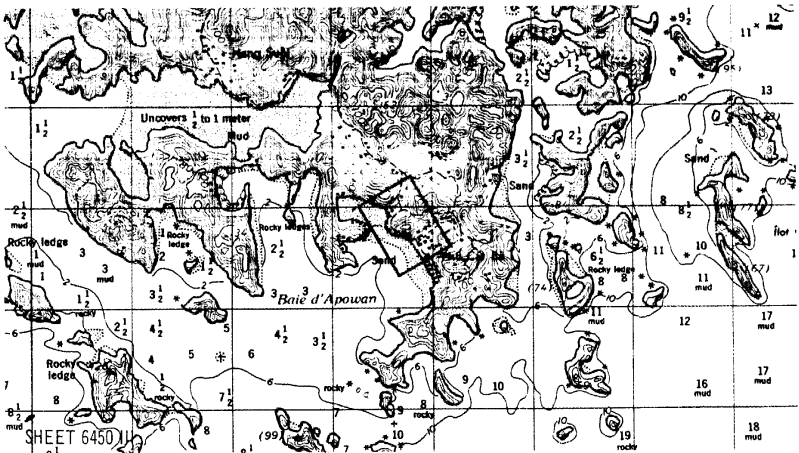
LOCATION: IN PHO CAT BA, ON THE SE SIDE OF ILE CAC-BA (ISLAND)

25X1A

DESCRIPTION: FACILITY CONSISTS OF 2 AREAS ON THE NE SHORE OF BAIE D'APOWAN (BAY). THE NORTHERN AREA CONTAINS A BOAT LANDING ADJACENT TO THE DAMAGED CAT BA ARMY BARRACKS (BE NO [REDACTED]), WHILE THE SOUTHERN AREA CONTAINS A CONCRETE WHARF, A FINGER PIER, A BOAT LANDING, AND SEVERAL ADMINISTRATION BUILDINGS. A CLEARED AREA EAST OF THE SOUTHERN BOAT LANDING HAS BEEN BOMBED.

25X1D

PHOTO REFERENCES:



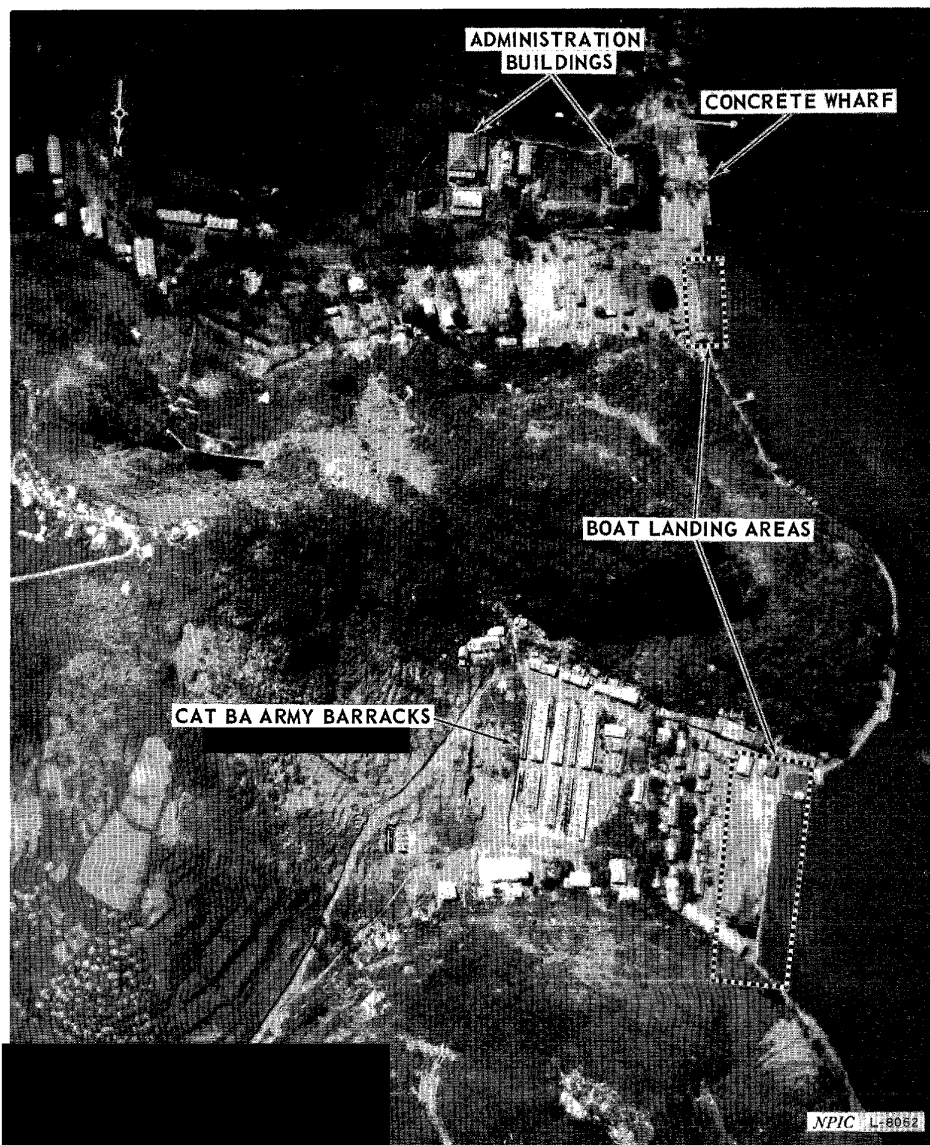
CONFIDENTIAL

NO FOREIGN DISSEM

25X1C

25X1C

R-99/67
11/1/97



25X1A

25X1D

PHO CAT BA COASTAL TRANSSHIPMENT POINT, NORTH VIETNAM

25X1C

Approved For Release 2000/04/17 : CIA-RDP78B002560A005800010013-1

25X1A

BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
		20°12'N 109°55'40"E

25X1D

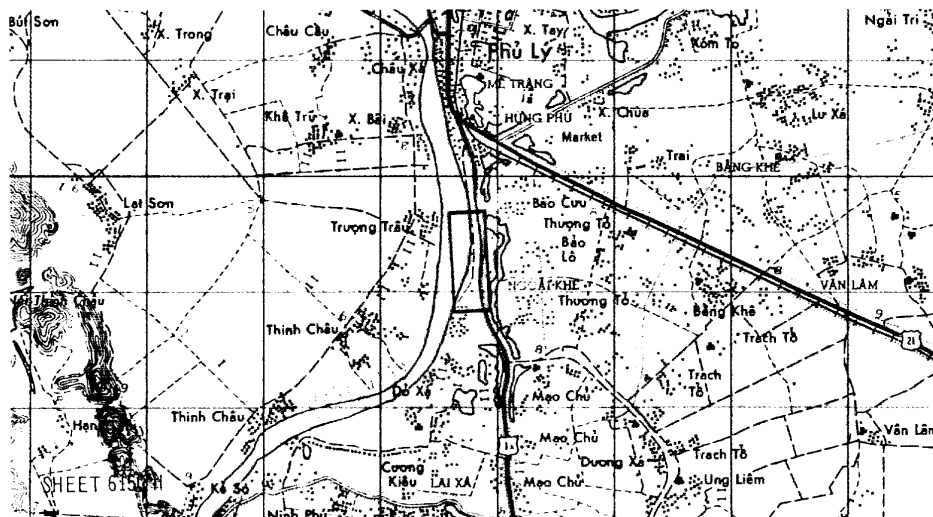
NAME: PHU LY TRANSSHIPMENT POINT, SONG DAY

LOCATION: 1.2 NM SOUTH OF PHU LY, ON THE EAST BANK OF THE SONG DAY (RIVER)

DESCRIPTION: POINT CONTAINS 4 DREDGED BOAT LANDINGS (LARGE ENOUGH TO ACCOMMODATE SELF-PROPELLED BARGES) SERVED BY 2 RAIL SPURS AND ROUTE 1A. TWELVE BUILDINGS, PROBABLY ASSOCIATED WITH THE TRANSSHIPMENT ACTIVITY, AND A BRICK KILN ARE ALSO WITHIN THE AREA.

PHOTO REFERENCES:

25X1D



Page B25

Approved For Release 2000/04/17 : CIA-RDP78B04560A005800010013-1
CONFIDENTIAL
NO FOREIGN DISSEM



25X1D

PHU LY TRANSSHIPMENT POINT, SONG DAY, NORTH VIETNAM

25X1A

BE NUMBER

UTM COORDINATES

212913N 1075653E
GEOGRAPHIC COORDINATES

25X1D

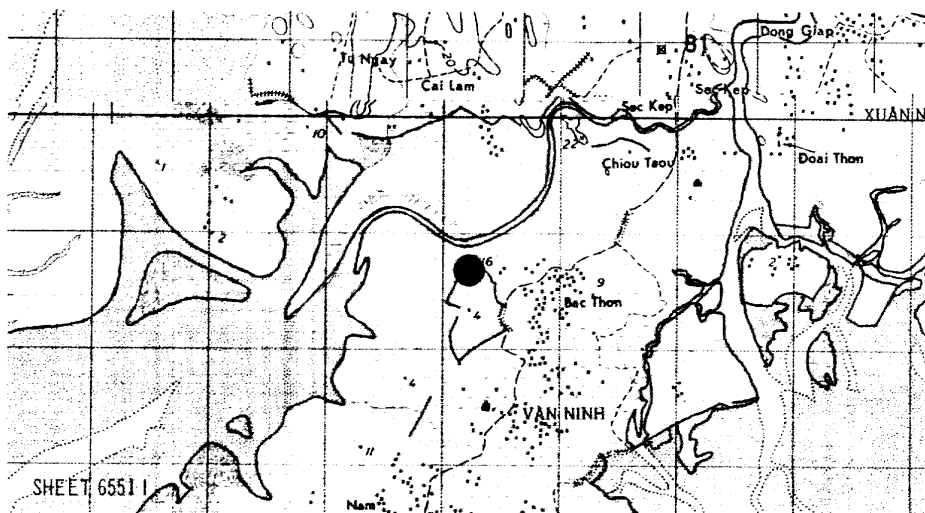
NAME: NAM THON COASTAL TRANSSHIPMENT POINT

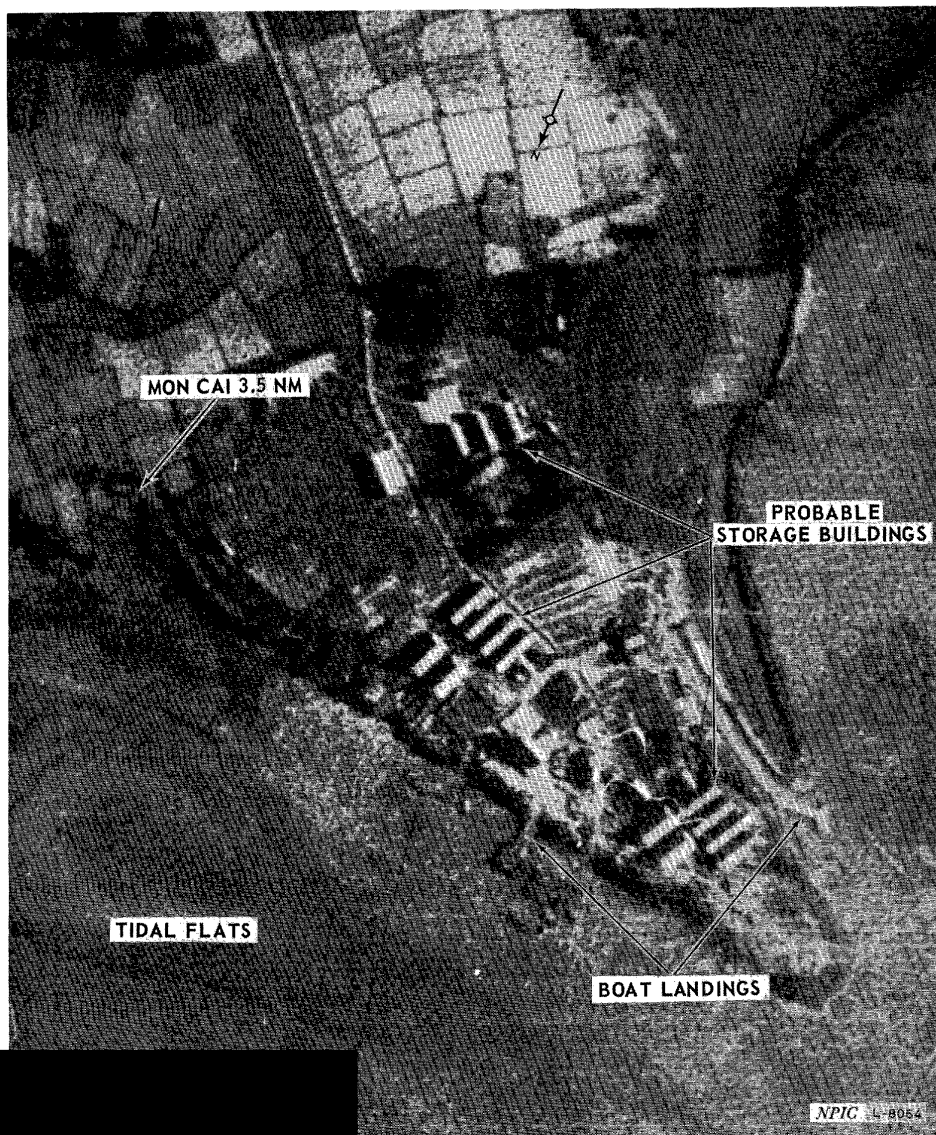
LOCATION: 3.5 NM SSW OF MON CAI, ON THE TIDAL FLATS

DESCRIPTION: SMALL POINT CONTAINS 2 BOAT LANDINGS, AN OPEN STORAGE AREA, 15 PROBABLE STORAGE BUILDINGS, AND 9 SUPPORT BUILDINGS. AREA IS SERVED BY AN UNNUMBERED ROAD EXTENDING FROM ROUTE 4.

25X1D

PHOTO REFERENCES:





25X1D

NAM THON COASTAL TRANSSHIPMENT POINT, NORTH VIETNAM

25X1A

BE NUMBER

UTM COORDINATES

210122N 1072235E
GEOGRAPHIC COORDINATES

25X1D

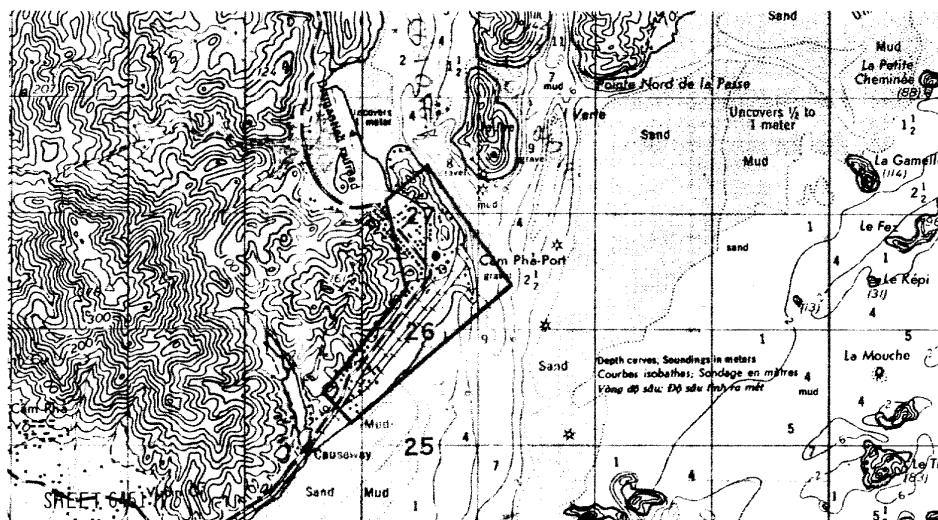
NAME: CAM PHA PORT FACILITIES

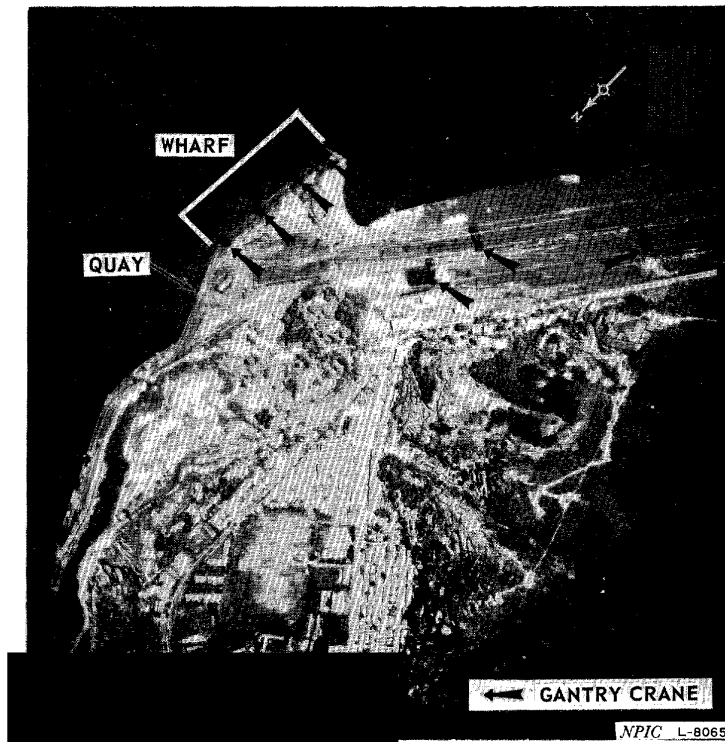
LOCATION: 4.7 NM EAST OF CAM PHA MINES, 40.5 NM ENE OF HAI PHONG, ON THE GULF OF TONKIN

DESCRIPTION: ONE OF THE 3 MAJOR SEAPORTS IN NORTH VIETNAM. PORT FACILITIES CONSIST OF A MAIN WHARF NEARLY 1,000-FT LONG WITH 4 LARGE GANTRY CRANES, MAKING IT POSSIBLE TO SERVE DEEP-DRAFT OCEAN-GOING VESSELS, AND A QUAY TO BERTH BARGES, LIGHTERS, AND OTHER SHALLOW-DRAFT VESSELS. THE PRIMARY CARGO HANDLED BY THE PORT IS COAL, BROUGHT BY RAIL FROM THE CAM PHA MINES. A LARGE COAL STORAGE AREA (APPROXIMATELY 2,800 X 360 FT) WITH 5 LARGE BRIDGE TRANSPORTER CRANES (3 SHOWN ON PHOTO) IS NEAR THE MAIN WHARF. OTHER COAL FACILITIES, NOT SHOWN ON PHOTO, INCLUDE A COAL TREATMENT PLANT ON BOTH SIDES OF THE TRACKS ENTERING THE STORAGE AREA AND A SMALL RAIL YARD WITH HOPPER CAR REPAIR SHOPS. THE RAIL YARD IS IN THE WESTERN EXTREMITY OF THE STORAGE AREA.

25X1D

PHOTO REFERENCES:





25X1D

CAM PHA PORT FACILITIES, NORTH VIETNAM

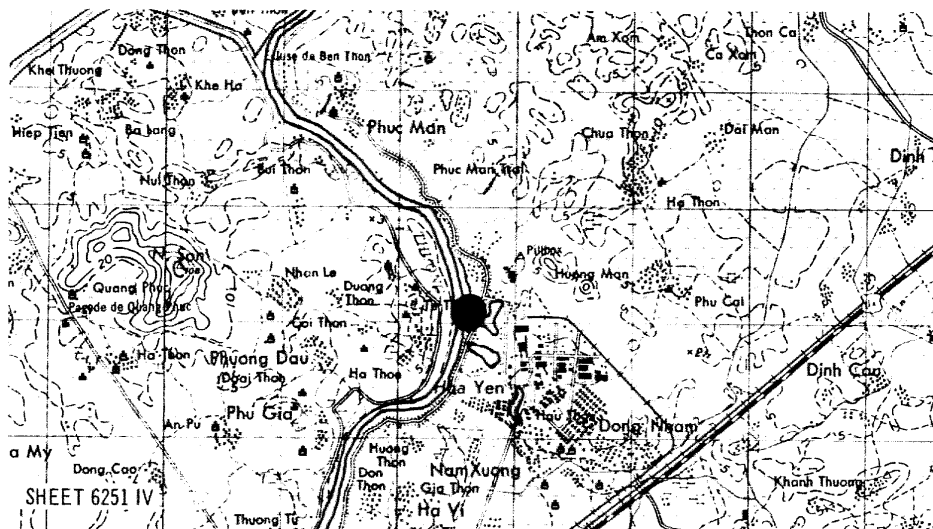
BE NUMBER [REDACTED] UTM COORDINATES 211811N 1061203E GEOGRAPHIC COORDINATES

NAME: BAC GIANG POWERPLANT WHARF

LOCATION: ON THE EAST BANK OF THE SONG THUONG (RIVER), ON THE WEST SIDE OF BAC GIANG FERTILIZER PLANT

DESCRIPTION: THIS WHARF IS AN ELABORATE COAL OFF-LOADING FACILITY SERVING THE BAC GIANG THERMAL POWERPLANT (BE NO [REDACTED] AT BAC GIANG FERTILIZER PLANT. THE WHARF CONSISTS OF 2 PIERS, EACH WITH A LARGE JIB CRANE, JOINED BY A WALKWAY. THE CRANES LIFT COAL FROM RIVER BARGES AND DEPOSIT IT ON THE FIRST SECTION OF A CONVEYOR SYSTEM EXTENDING APPROXIMATELY 500 YARDS TO THE POWERPLANT.

PHOTO REFERENCES: [REDACTED]





25X1D

BAC GIANG POWERPLANT WHARF, NORTH VIETNAM

39/67
MAY 1967

BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
		183605N 1054140E

25X1D

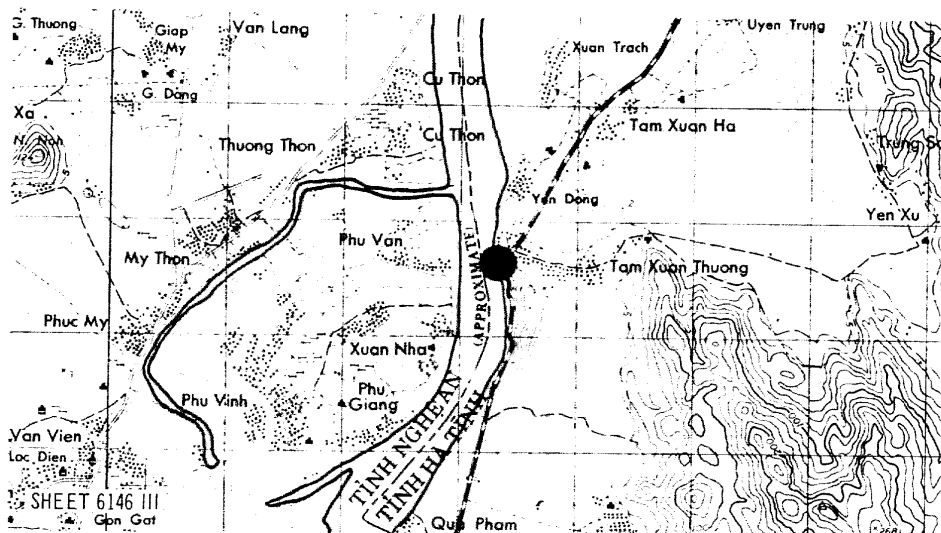
NAME: TAM XUAN THUONG TRANSSHIPMENT POINT

LOCATION: IN TAM XUAN THUONG, ON THE EAST BANK OF THE SONG CA (RIVER), 4.2 NM SSE OF VINH

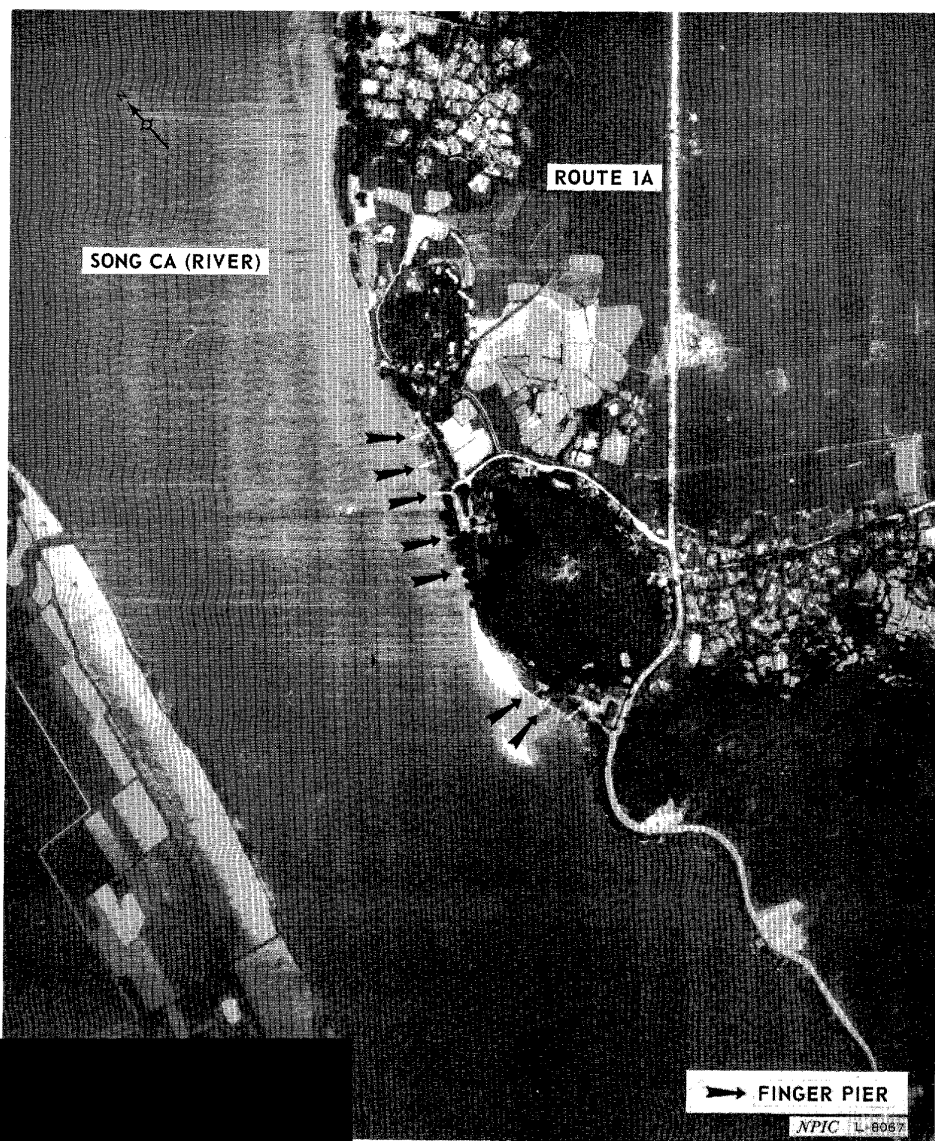
DESCRIPTION: FACILITY CONTAINS 7 FINGER PIERS AND NUMEROUS POSSIBLY ASSOCIATED BUILDINGS. AREA IS CONNECTED BY AN UNNUMBERED ROAD TO ROUTE 1A.

PHOTO REFERENCES:

25X1D



25X1C



25X1D

TAM XUAN THUONG TRANSSHIPMENT POINT, NORTH VIETNAM

25X1A

BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
[REDACTED]	[REDACTED]	210345N 1072040E

25X1D

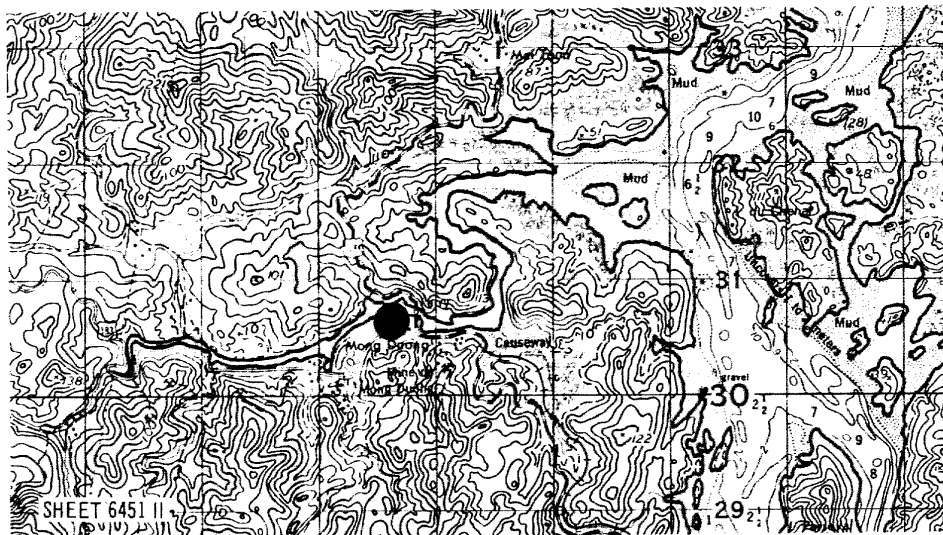
NAME: MONG DUONG TRANSSHIPMENT POINT

LOCATION: ON NW EDGE OF MONG DUONG, 3 NM NW OF CAM PHA PORT FACILITIES, ON THE BANK OF AN UNNAMED STREAM

DESCRIPTION: LARGE TRANSSHIPMENT POINT AND STORAGE AREA, PROBABLY ASSOCIATED WITH COAL MINING INDUSTRY IN THE AREA, CONTAINS LARGE CRATES OF SUPPLIES SCATTERED THROUGHOUT THE AREA. ROUTE 18 SERVES THE AREA.

PHOTO REFERENCES: [REDACTED]

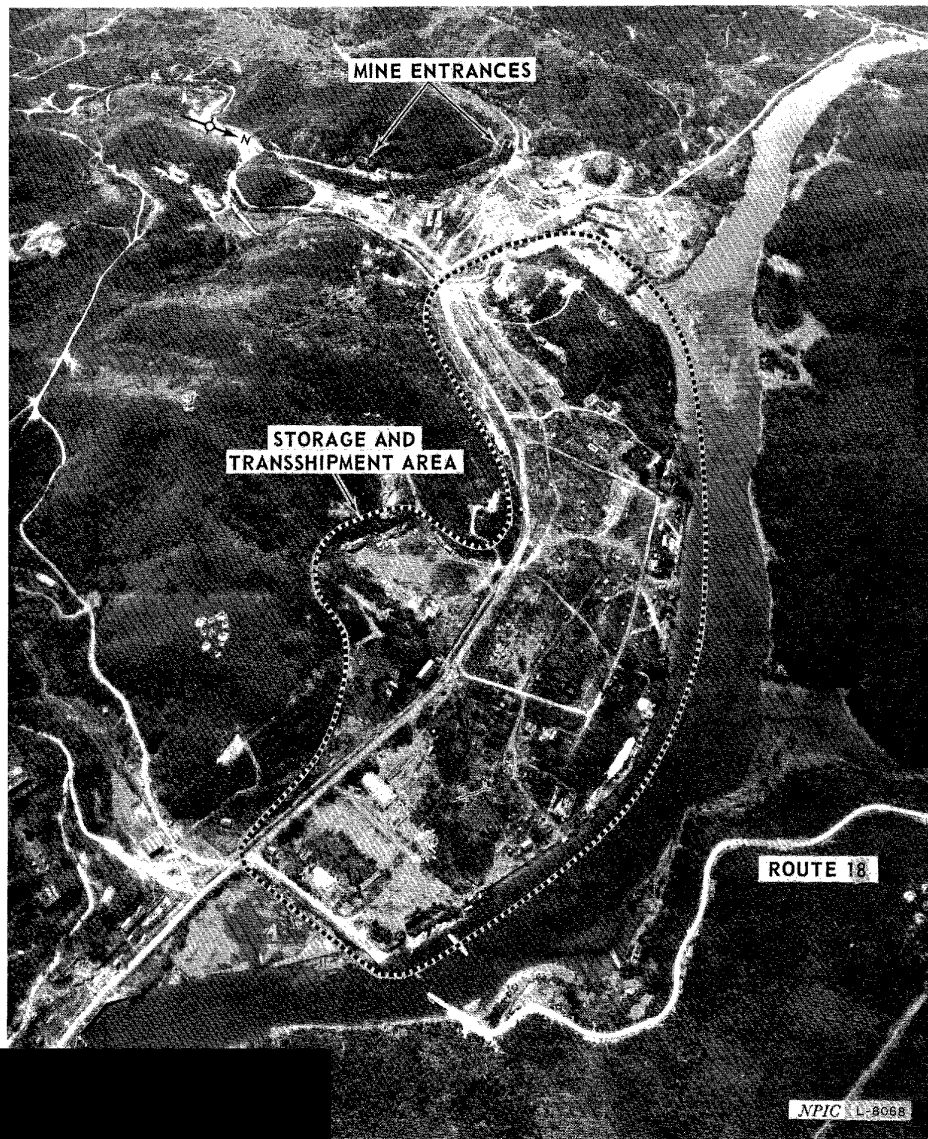
25X1D



CONFIDENTIAL

25X1C

R-90/67



25X1D

MONG DUONG TRANSHIPMENT POINT, NORTH VIETNAM

CONFIDENTIAL

NO FOREIGN DISSEM

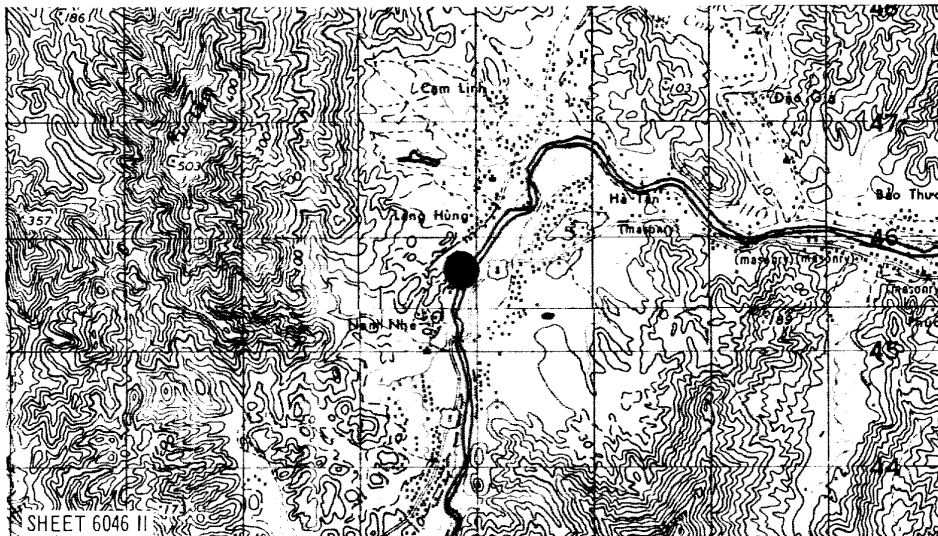
BE NUMBER UTM COORDINATES 183012N 1052025E GEOGRAPHIC COORDINATES

NAME: LANG HUNG TRANSSHIPMENT POINT

LOCATION: ON THE SOUTH SIDE OF LANG HUNG AND ON THE WEST BANK OF THE NGAN PHO (RIVER)

DESCRIPTION: SMALL TRANSSHIPMENT POINT CONSISTS OF A CLEARED STRIP ALONG THE RIVER BANK AND 2 BUILDINGS SERVED BY AN UNNUMBERED ROAD EXTENDING TO ROUTE 831. PHOTOGRAPHY OF [REDACTED] REVEALS 9 SAMPANS MOORED ALONG THE BANK AND 1 SAMPAN 400 YARDS NE ADJACENT TO THE OPPOSITE BANK.

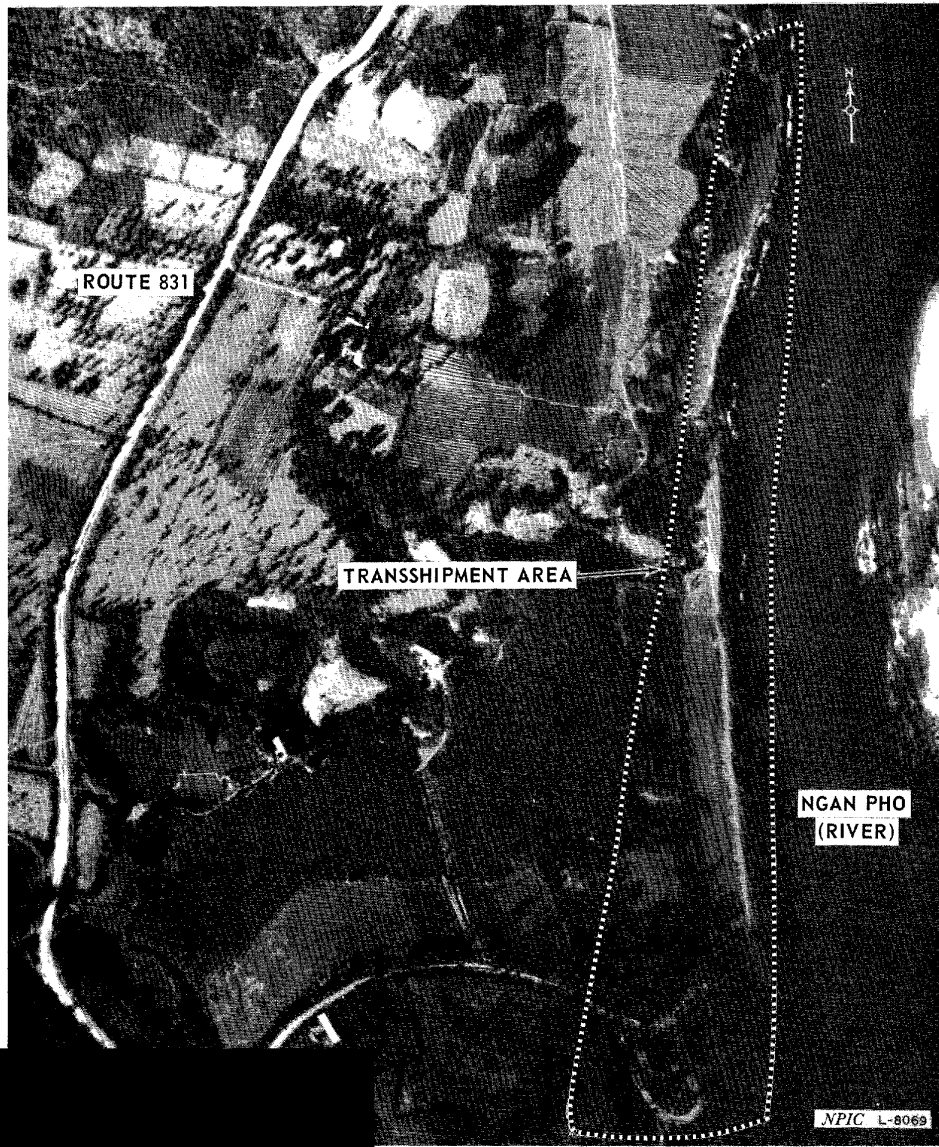
PHOTO REFERENCES: [REDACTED]



CONFIDENTIAL

25X1C

R-90/67



25X1D

LANG HUNG TRANSSHIPMENT POINT , NORTH VIETNAM

CONFIDENTIAL

NO FOREIGN DISSEM

25X1C

R-90/67

BE NUMBER

UTM COORDINATES

GEOGRAPHIC COORDINATES

183048N 1054140E

25X1D

NAME: TIEP VO TRANSHIPMENT POINT

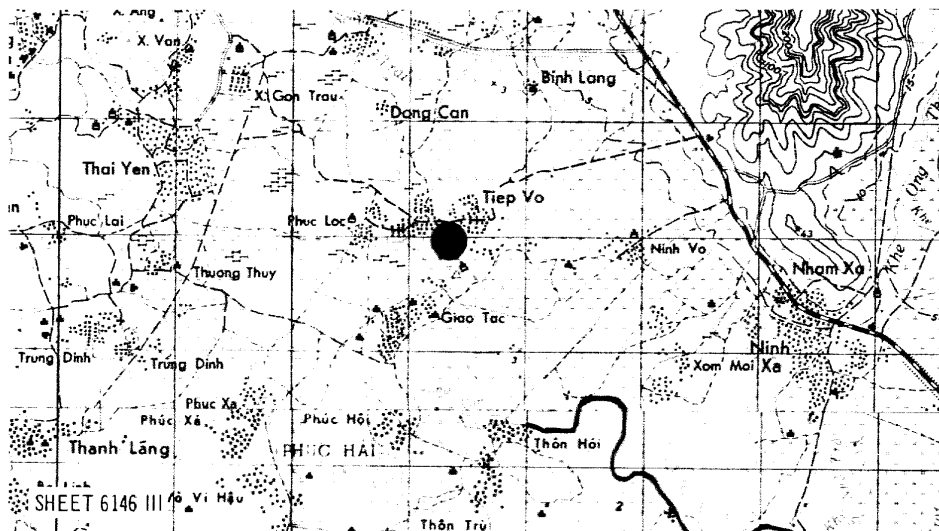
LOCATION: ON A TRIBUTARY OF THE SONG CA (RIVER), APPROXIMATELY 9 NM SOUTH OF VINH

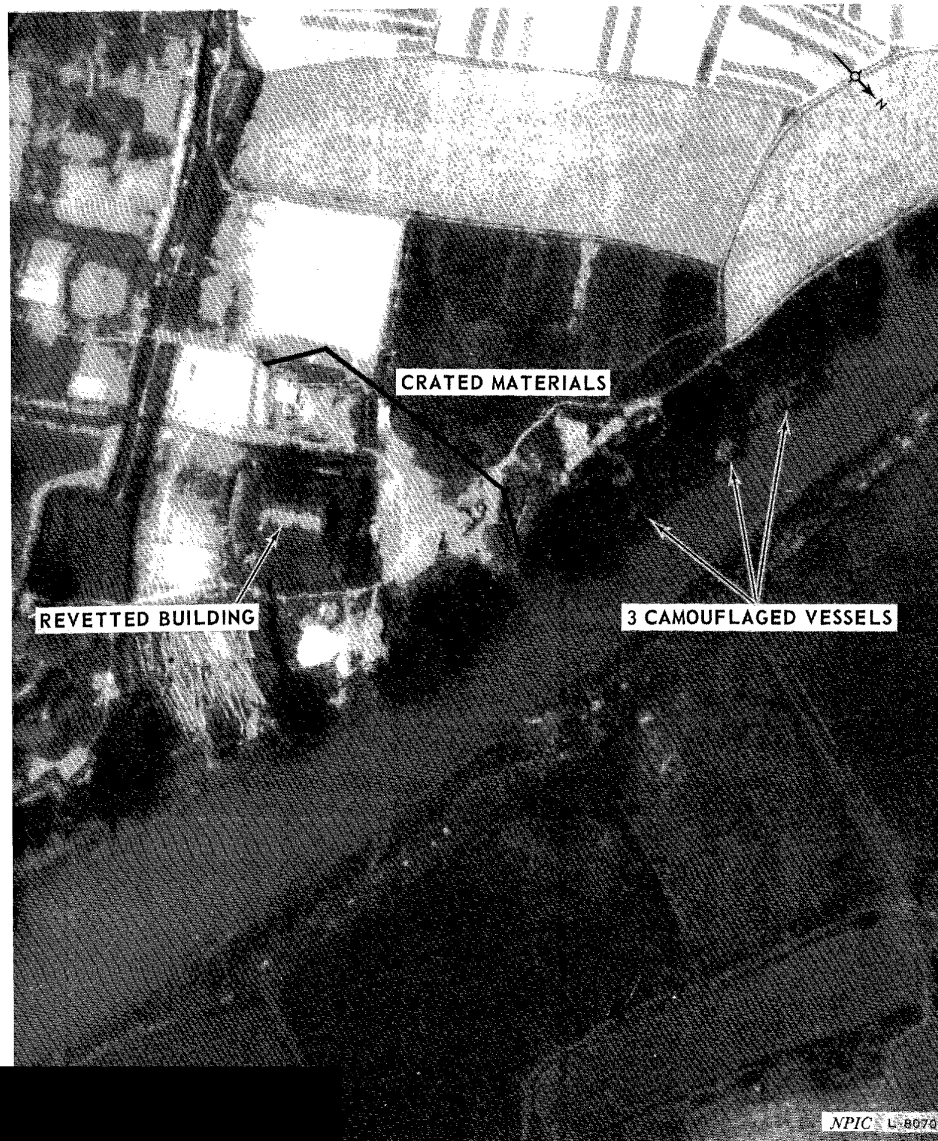
DESCRIPTION: POINT CONSISTS OF 1 PROBABLY ASSOCIATED REVETTED BUILDING WITH A DRAINAGE DITCH/WALKWAY LEADING TO THE STREAM AND A LARGE OPEN STORAGE AREA. PHOTOGRAPHY OF [REDACTED] REVEALS MATERIALS IN CRATES IN THE OPEN STORAGE AREA AND 3 CAMOUFLAGED VESSELS MOORED ALONG THE STREAM BANK.

25X1D

PHOTO REFERENCES:

25X1D





25X1D

TIEP VO TRANSSHIPMENT POINT, NORTH VIETNAM

25X1C

R-90/67
MAY 1967

BE NUMBER

UTM COORDINATES

191000N 1044056E
GEOGRAPHIC COORDINATES

25X1D

NAME: KHE BO TRANSSHIPMENT POINT, SONG CA

LOCATION: 0.7 NM NORTH OF KHE BO, ALONG THE WEST BANK OF THE SONG CA (RIVER)

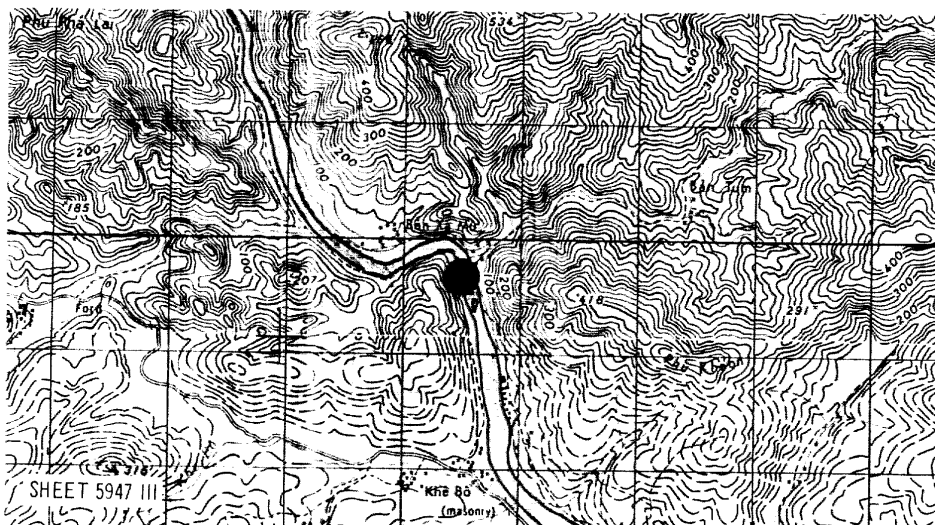
DESCRIPTION: TWO TRANSSHIPMENT AREAS SERVED BY A MOTORABLE ROAD TO ROUTE 7. PHOTOGRAPHY OF [REDACTED] REVEALS NUMEROUS CAMOUFLAGED SAMPANS APPROXIMATELY 35-FT LONG, BAMBOO RAFTS, AND LOG RAFTS WITH PROBABLE FOREST PRODUCTS AS CARGO. FIFTY 35-FT SAMPANS WERE OBSERVED IN THIS AREA ON [REDACTED] VESSELS OF THIS SIZE WERE ALSO OBSERVED HERE IN [REDACTED]

25X1D

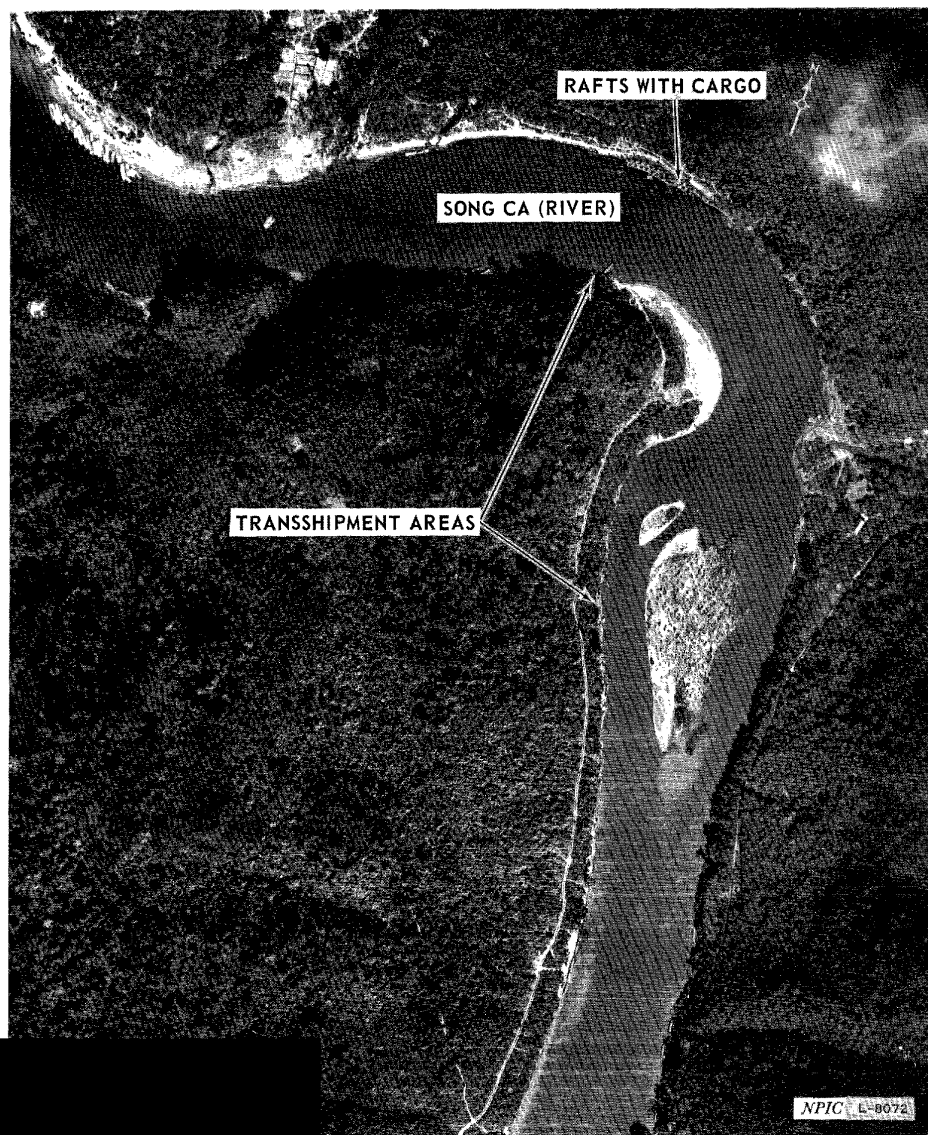
25X1D
25X1D

PHOTO REFERENCES:

25X1D



25X1C



25X1D

KHE BO TRANSHIPMENT POINT, SONG CA, NORTH VIETNAM

CONFIDENTIAL 25X1C
Approved For Release 2000/04/17 : CIA-RDP78B04560A005800010013-1
NO FOREIGN DISSEM

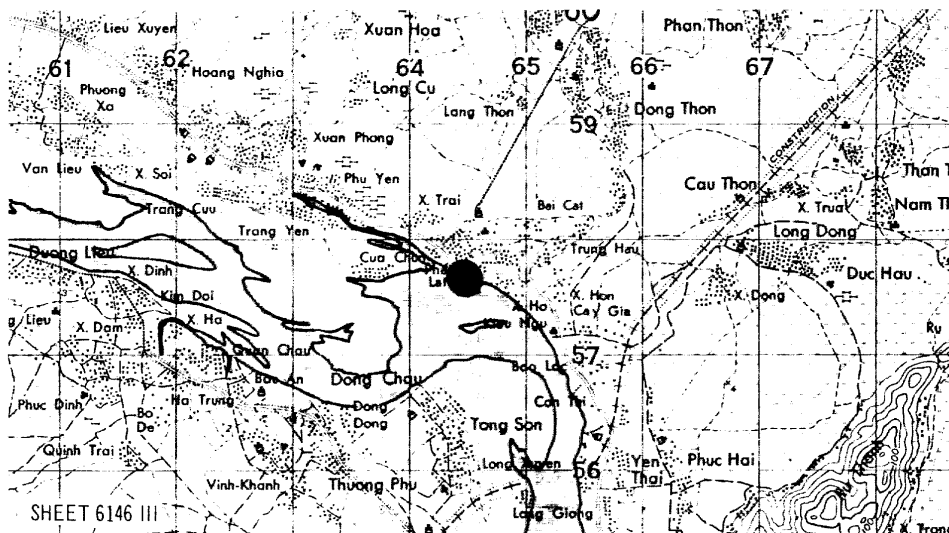
BE NUMBER [REDACTED] UTM COORDINATES 183640N 1053640E
GEOGRAPHIC COORDINATES

NAME: PHAT LAT TRANSHIPMENT POINT

LOCATION: ON THE NORTH BANK OF THE SONG CA (RIVER)

DESCRIPTION: FACILITY IS COMPRISED OF 4 MOLES SERVED BY ROUTE 1119. ON PHOTOGRAPHY OF [REDACTED] NUMEROUS SMALL CRAFT ARE IN THE AREA.

PHOTO REFERENCES: [REDACTED]



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Approved For Release 2000/04/17 : CIA-RDP78B04560A005800010013-1
NO FOREIGN DISSEM

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25X1C

R-90/67



25X1D

PHAT LAT TRANSHIPMENT POINT, NORTH VIETNAM

CONFIDENTIAL

25X1C

NO FOREIGN DISSEM

25X1A

BE NUMBER

UTM COORDINATES

205315N 1063718E
GEOGRAPHIC COORDINATES

25X1D

NAME: LOI DONG TRANSHIPMENT POINT, CUA CAM

LOCATION: 0.4 NM NNE OF CONG MY, 4 NM NW OF HAI PHONG, ON THE WEST BANK OF THE CUA CAM (RIVER)

DESCRIPTION: RAIL- AND ROAD-SERVED RIVER PORT CONTAINS 6 BREASTING PLATFORMS (USED BY CARGO BARGES FOR UNLOADING COAL AND CRATED SUPPLIES), A 4-TRACK RAIL YARD (1 TRACK UNDER CONSTRUCTION), A LARGE COAL STORAGE AREA SERVED BY 2 RAIL SPURS (1 UNDER CONSTRUCTION), AND A CONVEYOR SYSTEM (FOR OFF-LOADING INCOMING BARGES) UNDER CONSTRUCTION FROM THE NORTHERNMOST BREASTING PLATFORM TO THE AREA BETWEEN THE COAL STORAGE AREA AND THE 4-TRACK RAIL YARD. PHOTOGRAPHY OF [REDACTED] REVEALS 2 FLOATING JIB CRANES, SEVERAL TRUCKS, PIECES OF UNIDENTIFIED EQUIPMENT, AND SUPPLIES IN CRATES NEAR THE BREASTING PLATFORMS. PHOTOGRAPHY OF [REDACTED] REVEALS CONSTRUCTION ON THE CONVEYOR SYSTEM TO BE NEARLY COMPLETE. PHOTOGRAPHY OF [REDACTED] REVEALS THE RAIL YARD HAS BEEN INTERDICTED AND 1 SECTION OF THE CONVEYOR SYSTEM HAS BEEN DESTROYED.

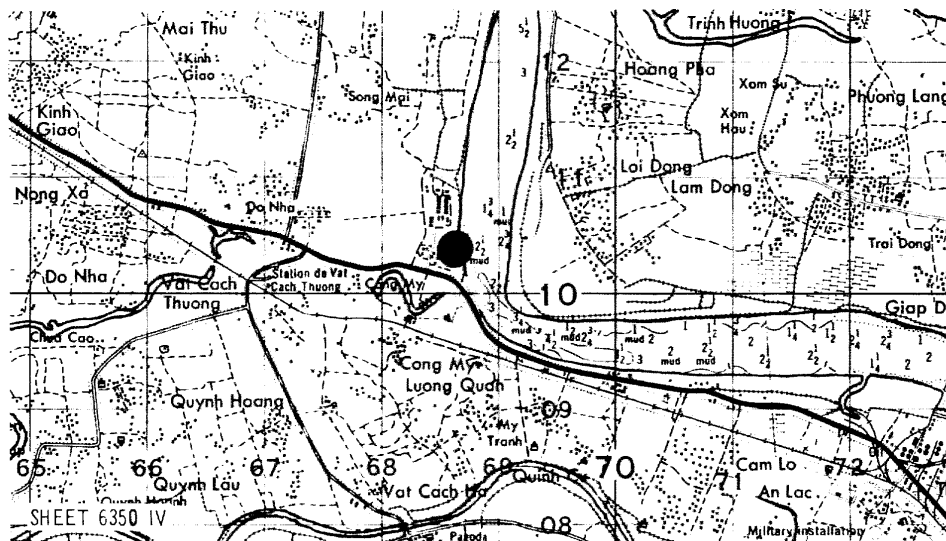
25X1D

25X1D

25X1D

PHOTO REFERENCES:

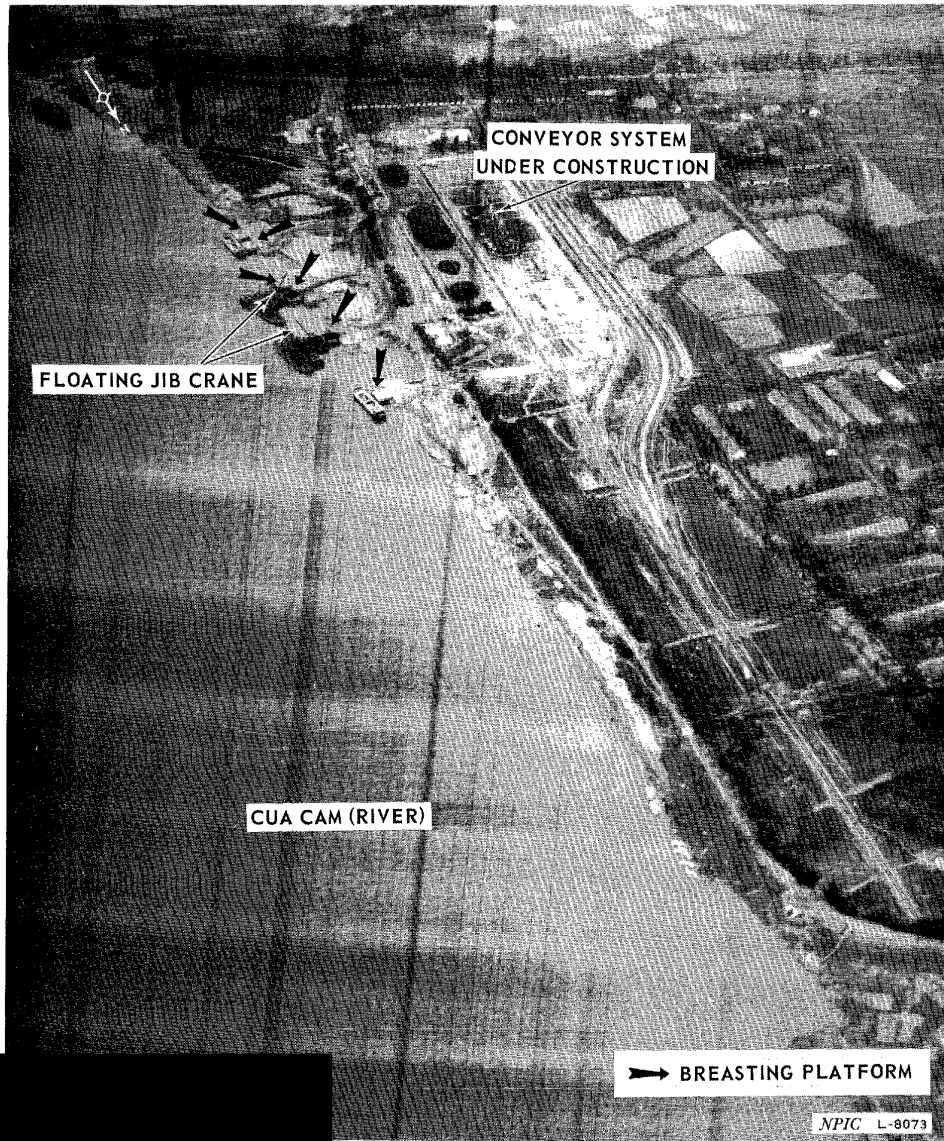
25X1D



CONFIDENTIAL

25X1C

R-90/67



25X1D

LOI DONG TRANSSHIPMENT POINT, CUA CAM, NORTH VIETNAM

CONFIDENTIAL

NO FOREIGN DISSEM

CONFIDENTIAL 25X1C

R 90/67
MAY 1967

25X1A

BE NUMBER

UTM COORDINATES

174200N 1062800E
GEOGRAPHIC COORDINATES

25X1D

NAME: QUANG KHE TRANSSHIPMENT POINT

LOCATION: ON THE SOUTH BANK OF THE SONG GIANG (RIVER)

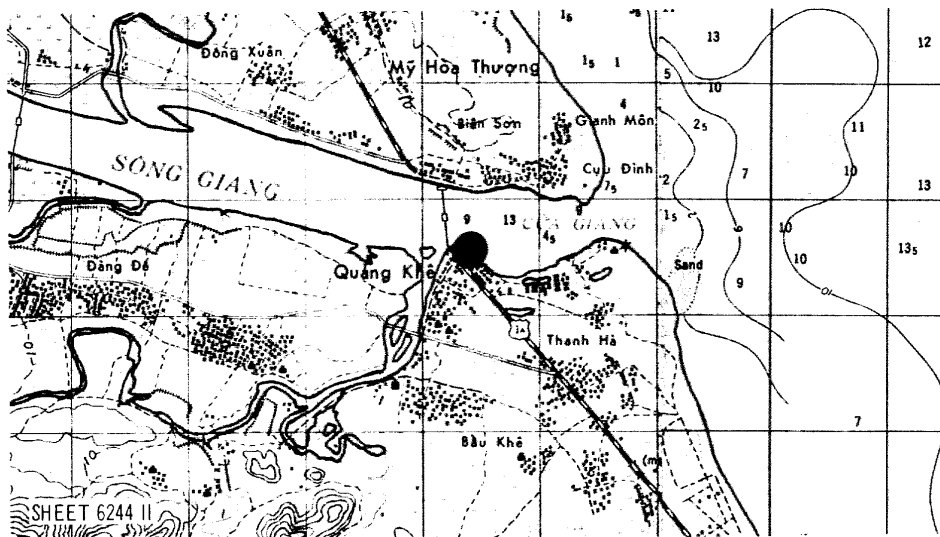
DESCRIPTION: POINT CONSISTS OF THE FORMER T-HEAD PIER AND A SMALLER PIER IN THE VICINITY OF THE SOUTHERN LANDING OF QUANG KHE FERRY (BE NO. [REDACTED]) PHOTOGRAPHY OF [REDACTED] REVEALS 4 SL-1 CARGO VESSELS, 4 COASTING BARGES, AND NUMEROUS RIVER CRAFT ENGAGED IN TRANSSHIPMENT ACTIVITY.

25X1A
25X1D

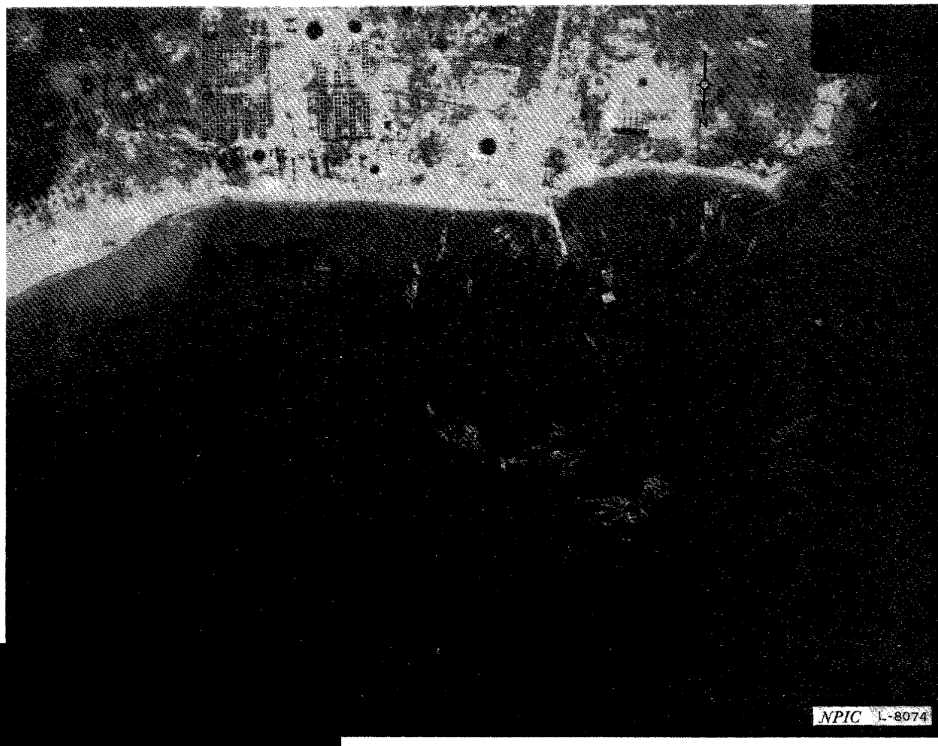
25X1A

PHOTO REFERENCES: [REDACTED]

25X1D



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CONFIDENTIAL
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R-90/67
NO FOREIGN DISSEM



25X1D

QUANG KHE TRANSHIPMENT POINT, NORTH VIETNAM

Page B48

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CONFIDENTIAL
NO FOREIGN DISSEM

Approved For Release 2000/04/17 : CIA-RDP78B04560A005800010013-1

C

SECTION C
HAI PHONG PORT AREA

Approved For Release 2000/04/17 : CIA-RDP78B04560A005800010013-1

TABLE OF CONTENTS SECTION C
HAI PHONG PORT AREA

25X1A

<u>Map Key</u>	<u>BE No.</u>	<u>Installation Name</u>	<u>Page</u>
1		Cam Lo Transshipment Point	C1
2		Thuong Ly Boat Repair Yard	C3
3		Hai Phong Shipyard No. 4 Dancette	C5
4		Hai Phong Naval Base	C7
5		Hospital Wharf, Hai Phong	C9
6		Chamber of Commerce Wharves, Hai Phong	C11
7		Hai Phong Shipyard North	C13
8		Hai Phong Coal and Ice Plant Wharves	C15
9		Hai Phong Ship Repair Yard No. 1	C17
10		Hai Phong Ship Repair Yard No. 3 Sauvage	C19
11		Hai Phong Ship Repair Yard No. 2 Sacric	C21
12		Hai Phong Shipyard West	C23
13		Hai Phong Shipyard Vinh Khc	C25
14		An Duong Shipyard	C27

HAI PHONG PORT AREA

Hai Phong is the largest port in North Vietnam, second in population only to Ha Noi, and is important because of its concentration of light industry, warehouses, and transshipment facilities. Most of the North Vietnamese naval vessels are also located in Hai Phong.

The port facilities consist of over 4,200 feet of wharfage accommodating large-hatch, foreign vessels of up to 510 feet in length, several million square feet of warehouse storage, and at least 644,000 square feet of open storage area.

Hai Phong is linked to the rest of North Vietnam by a single-track rail line to Ha Noi, an extensive network of all-weather roads to all parts of north central North Vietnam, and waterway connections with the inland waterways to the southern, eastern, and north central parts of the country.

Two large anchorage areas serve the Hai Phong Port Facilities. One, known as Hai Phong Quarantine Anchorage, is an approximately 4.2-nm stretch of the Cua Nam Trieu (channel) centered at 20-49-36N 106-49-08E (UTM [REDACTED]). This anchorage accommodates the merchant vessels awaiting berths at Hai Phong Port Facilities. The other anchorage consists of an approximately 1.8-nm section of the lower part of the Song Bach Dang (river) centered at 21-50-40N 106-45-52E [REDACTED]. It is a tanker anchorage where, since [REDACTED] the majority of the large POL tankers have discharged their cargo to waiting POL barges.

Shipbuilding and major repair facilities are limited to serving small coastal vessels and the barges and other river craft seen throughout the Hai Phong area. Shipbuilding and/or repair yards range in size from Hai Phong Shipyard No. 4 Dancette (Page C5), where large coastal vessels can be built on the [REDACTED] marine railways, to the small basin at Vinh Khe (Page C25), where only small river craft and ferry boats can be constructed.

Silting is a major problem throughout this area of North Vietnam; all the navigable waterways near Hai Phong must be kept dredged. An alongside depth of at least thirty feet, at high tide, must be maintained to enable a fully loaded Potava-class (large-hatch, dry cargo) freighter to berth at the Chamber of Commerce Wharves. North Vietnam has several large bucket dredges and numerous Soviet ZRS-1 suction dredges stationed in the area to keep the waterways cleared.

25X1D

25X1D

25X1D



CONFIDENTIAL 25X1C

R-90/67
MAY 1967

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Approved For Release 2000/04/17 : CIA-RDP78B04560A005800010013-1

CONFIDENTIAL

25X1C

NPIC L-8075

BE NUMBER

UTM COORDINATES

205225N 1063915E
GEOGRAPHIC COORDINATES

25X1D

NAME: CAM LO TRANSSHIPMENT POINT

LOCATION: 0.8 NM NE OF CAM LO, ON THE SOUTH BANK OF THE CUA CAM (RIVER)
1.5 NM WEST OF HAIPHONG SHIPYARD NO. 4 DANCETTE

DESCRIPTION: TRANSSHIPMENT POINT, CURRENTLY BEING USED TO TRANSSHIP TIMBER,
IS SERVED BY ROUTE 5 AND THE HANOI/HAIPHONG RAIL LINE. DREDGING IS
PROBABLY REQUIRED TO KEEP THE CHANNEL OPEN.

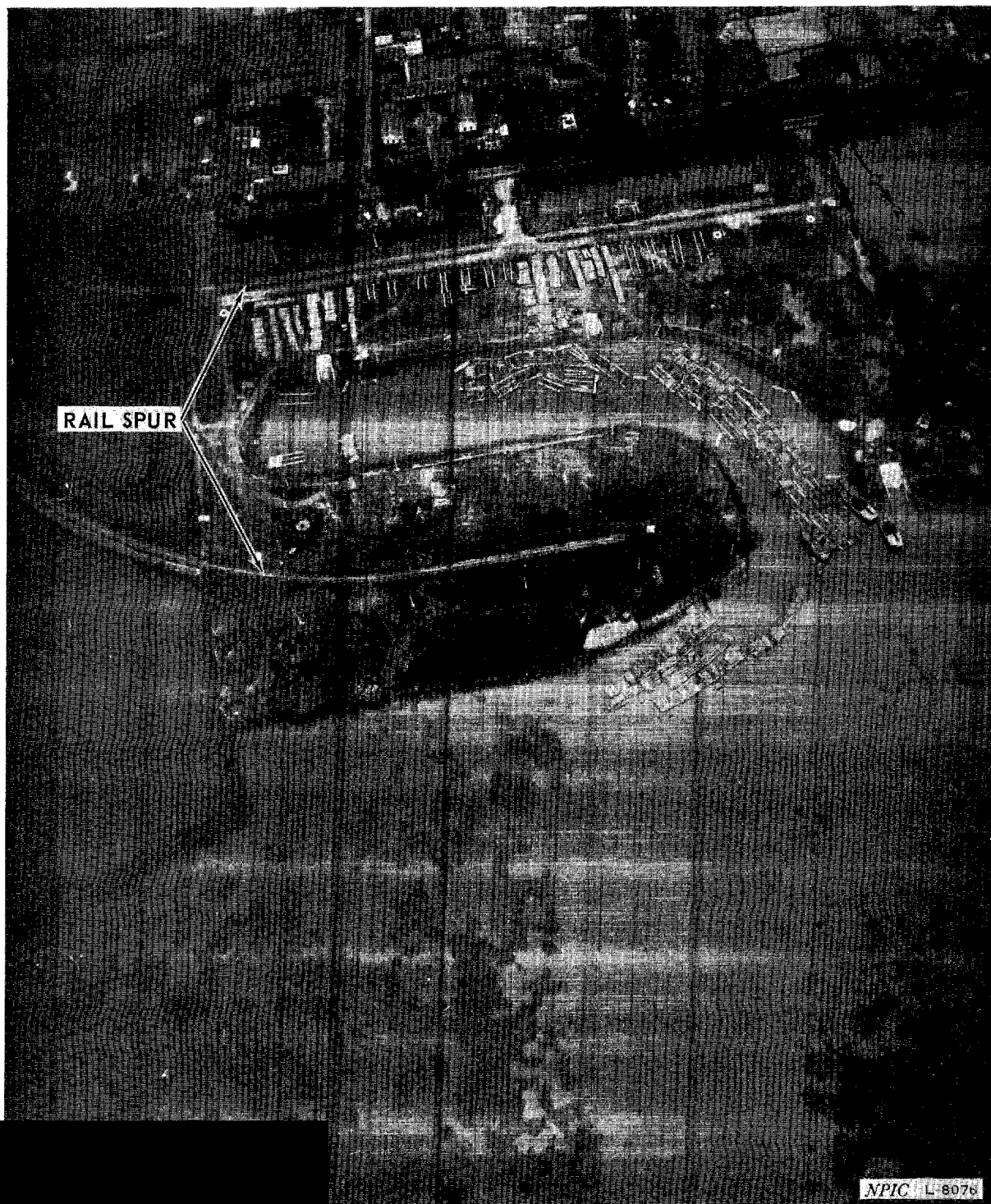
25X1D

PHOTO REFERENCES:

CONFIDENTIAL

25X1C

R-90/67



25X1D

CAM LO TRANSSHIPMENT POINT, NORTH VIETNAM

CONFIDENTIAL

25X1C

NO FOREIGN DISSEM

25X1A

BE NUMBER

UTM COORDINATES

205212N 1064010E
GEOGRAPHIC COORDINATES

25X1D

NAME: THUONG LY BOAT REPAIR YARD

LOCATION: ON THE SOUTH BANK OF THE CUA CAM (RIVER)

25X1D

DESCRIPTION: SMALL YARD CONTAINS A GRAVING DOCK [REDACTED] AND 6 SMALL PROBABLE SHOPS. PHOTOGRAPHY OF [REDACTED] REVEALS A RIVER TUGBOAT AND A SELF-PROPELLED CARGO BARGE IN THE GRAVING DOCK AND 4 BARGES NEAR THE ENTRANCE OF THE DOCK.

25X1D

25X1D

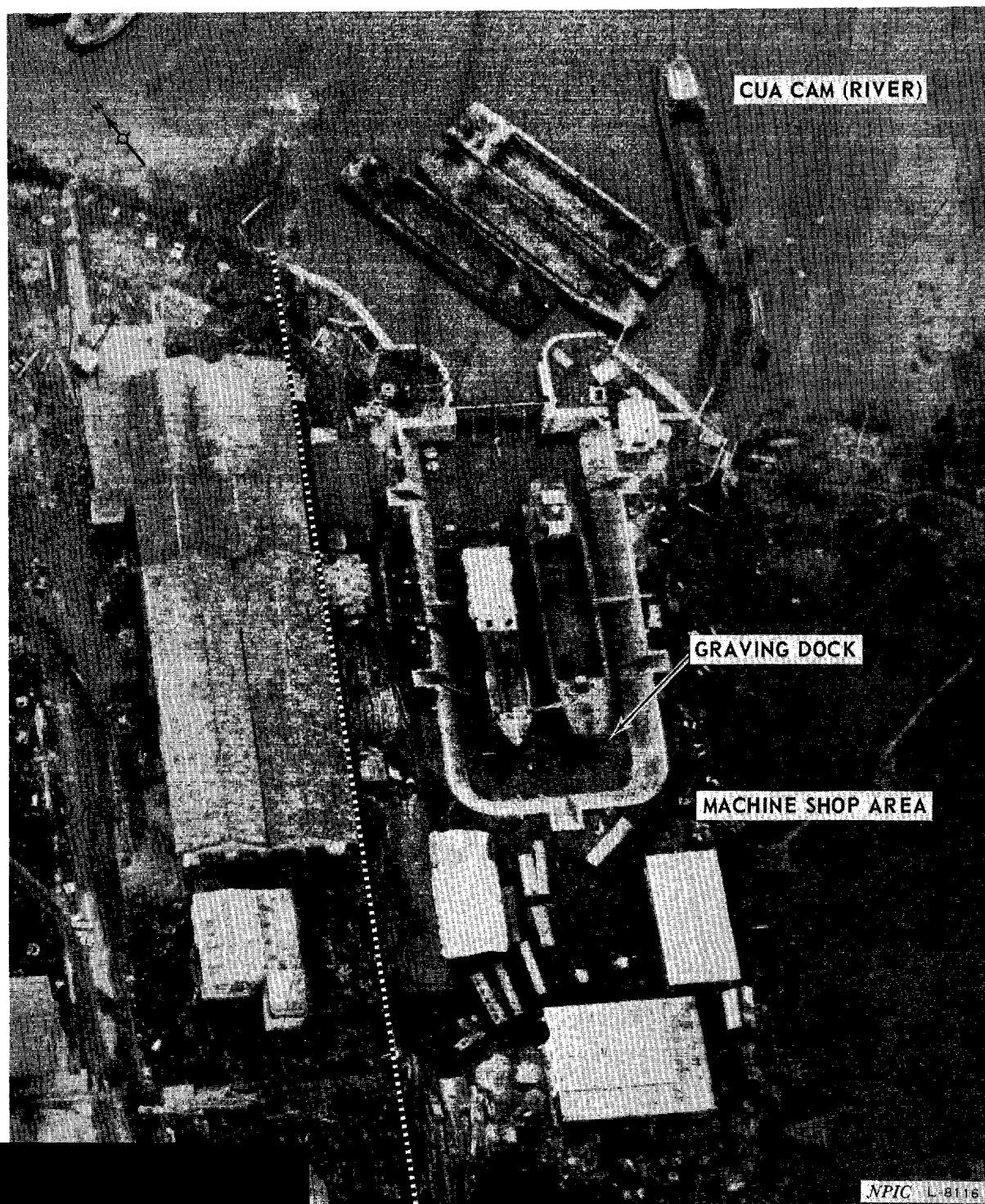
PHOTO REFERENCES: [REDACTED]

CONFIDENTIAL

25X1C

R-90/67

10/1/67



25X1D

THUONG LY BOAT REPAIR YARD, NORTH VIETNAM

NO FOREIGN DISSEM

CONFIDENTIAL

25X1C

25X1A

BE NUMBER

UTM COORDINATES

205154N 1064038E
GEOGRAPHIC COORDINATES

25X1D

NAME: HAI PHONG SHIPYARD NO. 4 DANCETTE

LOCATION: ON THE SOUTH BANK OF THE CUA CAM (RIVER)

DESCRIPTION: THE LARGEST SHIPBUILDING/REPAIR INSTALLATION IN NORTH VIETNAM IS CURRENTLY USED AS A MAINTENANCE FACILITY FOR NAVAL VESSELS, PARTICULARLY THE SWATOW-CLASS PGM. THE FACILITY CONSISTS OF 4 MARINE RAILWAYS MEASURING (FROM THE GRAVING DOCK) 285-FT

25X1D

GRAVING DOCK; A L-HEAD PIER; A PORTAL CRANE; 2 FIXED-JIB CRANES; AND 10 SUPPORT BUILDINGS. THE YARD CAN BUILD VESSELS UP TO 2,000 GRT.

25X1D

PHOTOGRAPHY OF REVEALS 2 SWATOW-CLASS PGM, 2 YP, 1 COASTAL FREIGHTER, 1 TRAWLER, 1 FLOATING SHEARLEGS CRANE, AND 1 BUCKET DREDGE.

25X1D

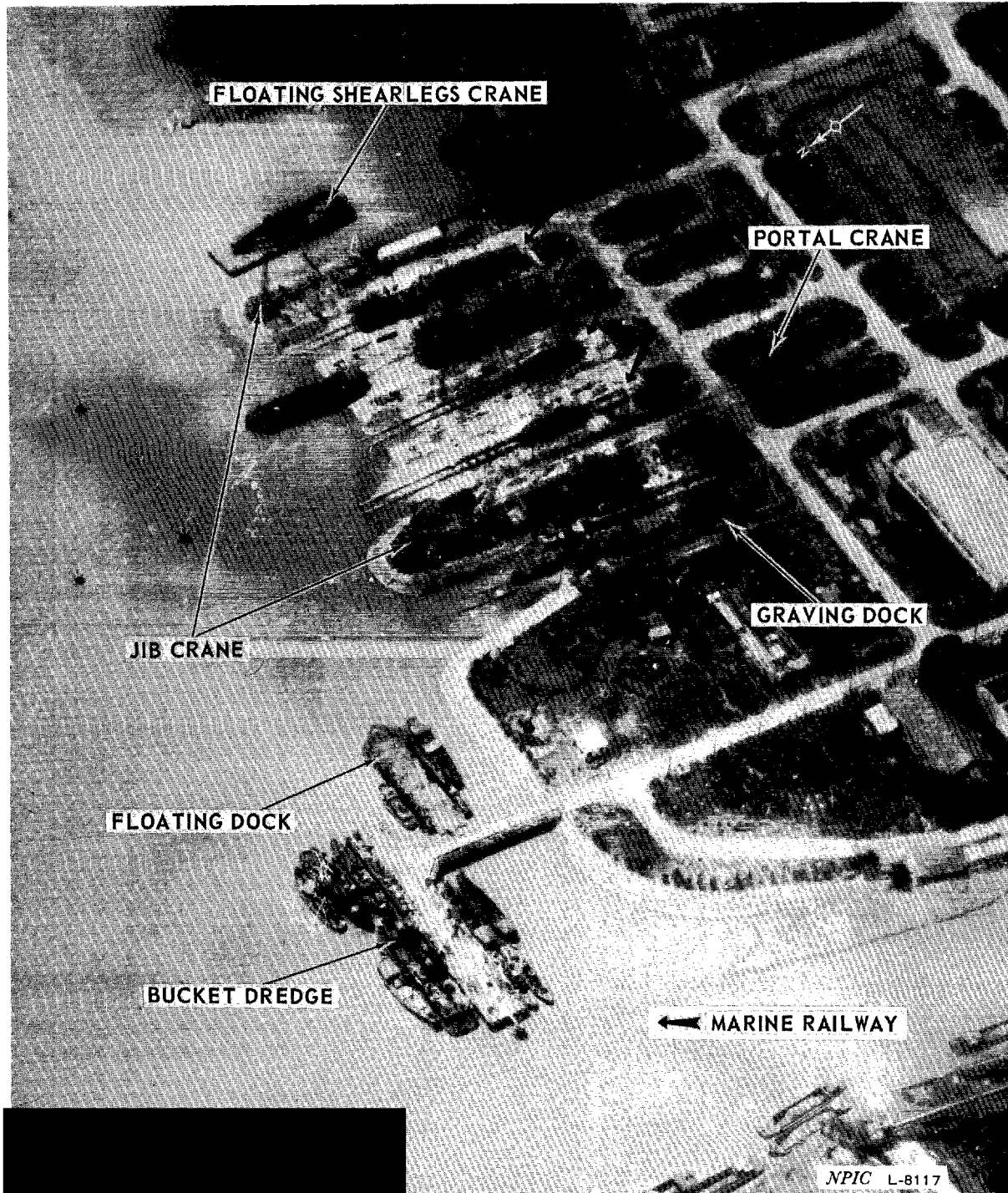
PHOTO REFERENCES:

CONFIDENTIAL

25X1C

R-90/67

NO FOREIGN DISSEM



25X1D

HAI PHONG SHIPYARD NO. 4 DANCETTE, NORTH VIETNAM

CONFIDENTIAL

25X1C

NO FOREIGN DISSEM

25X1A

BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
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25X1D

NAME: HAI PHONG NAVAL BASE

LOCATION: AT THE CONFLUENCE OF THE SONG TRAM BAC AND CUA CAM (RIVERS)

DESCRIPTION: FACILITY CONSISTS OF ONE [REDACTED] GRAVING DOCK WITH [REDACTED] EXTENSION, 3 SMALL MARINE RAILWAYS, 1 DAMAGED FINGER PIER AND 1 T-HEAD PIER (NOT SHOWN), A 240-FT WHARF, 1 LARGE ADMINISTRATION BUILDING, AND NUMEROUS SHOPS AND SUPPORT BUILDINGS (SOME NOT SHOWN). PHOTOGRAPHY OF [REDACTED] REVEALS 1 S.O.1-CLASS SC (NOT SHOWN), 1 P-4-CLASS PT, 3 SWATOW-CLASS PGM, AND NUMEROUS SMALL CRAFT AT THE BASE, AND 1 SWATOW-CLASS PGM AND 4 POL BARGES NEAR THE MOUTH OF THE SONG TRAM BAC (RIVER).

25X1D
25X1D

25X1D

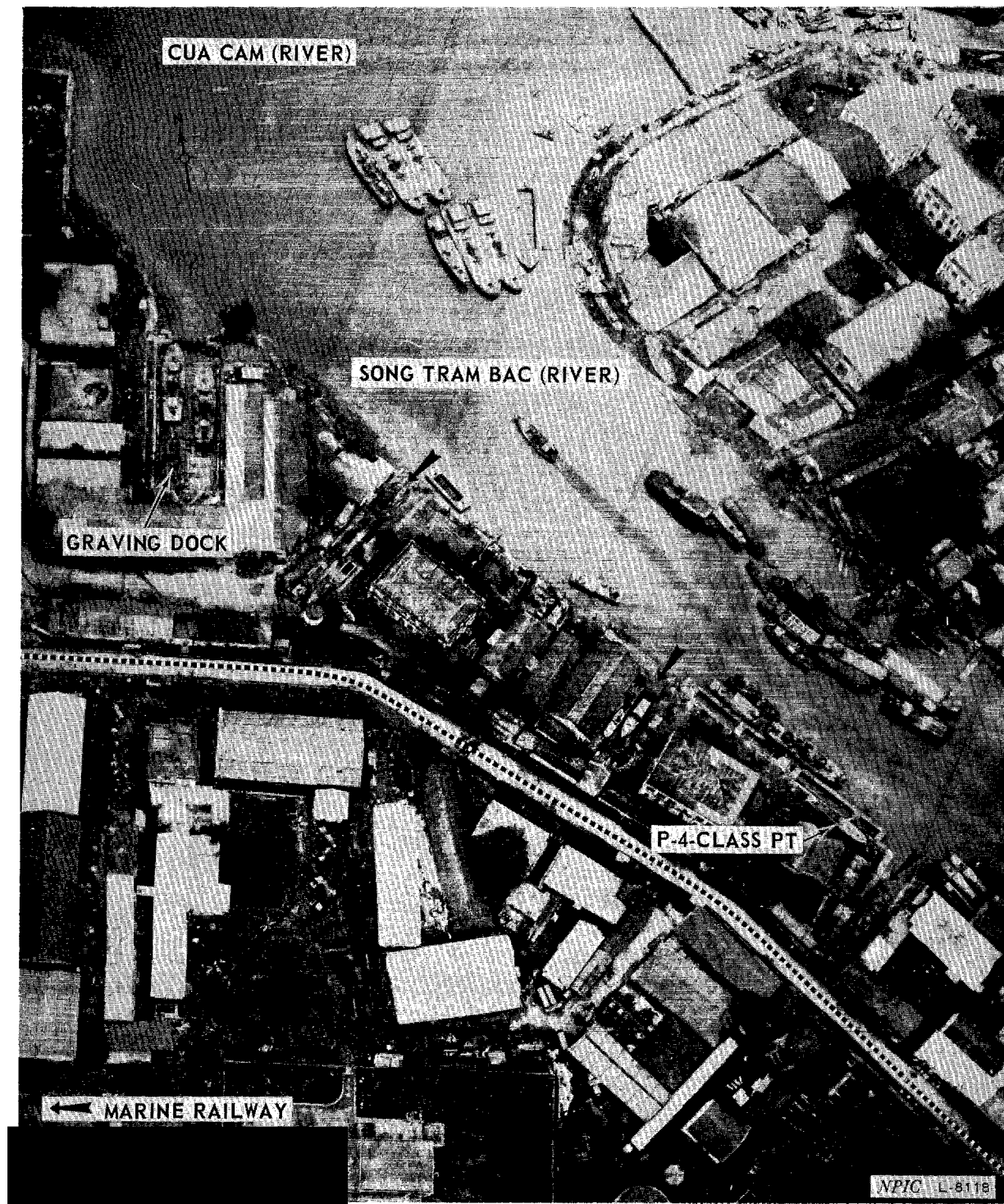
25X1D

PHOTO REFERENCES: [REDACTED]

CONFIDENTIAL

25X1C

R-90/67
NO FOREIGN DISSEM



25X1D

HAI PHONG NAVAL BASE, NORTH VIETNAM

CONFIDENTIAL

25X1C

NO FOREIGN DISSEM

BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
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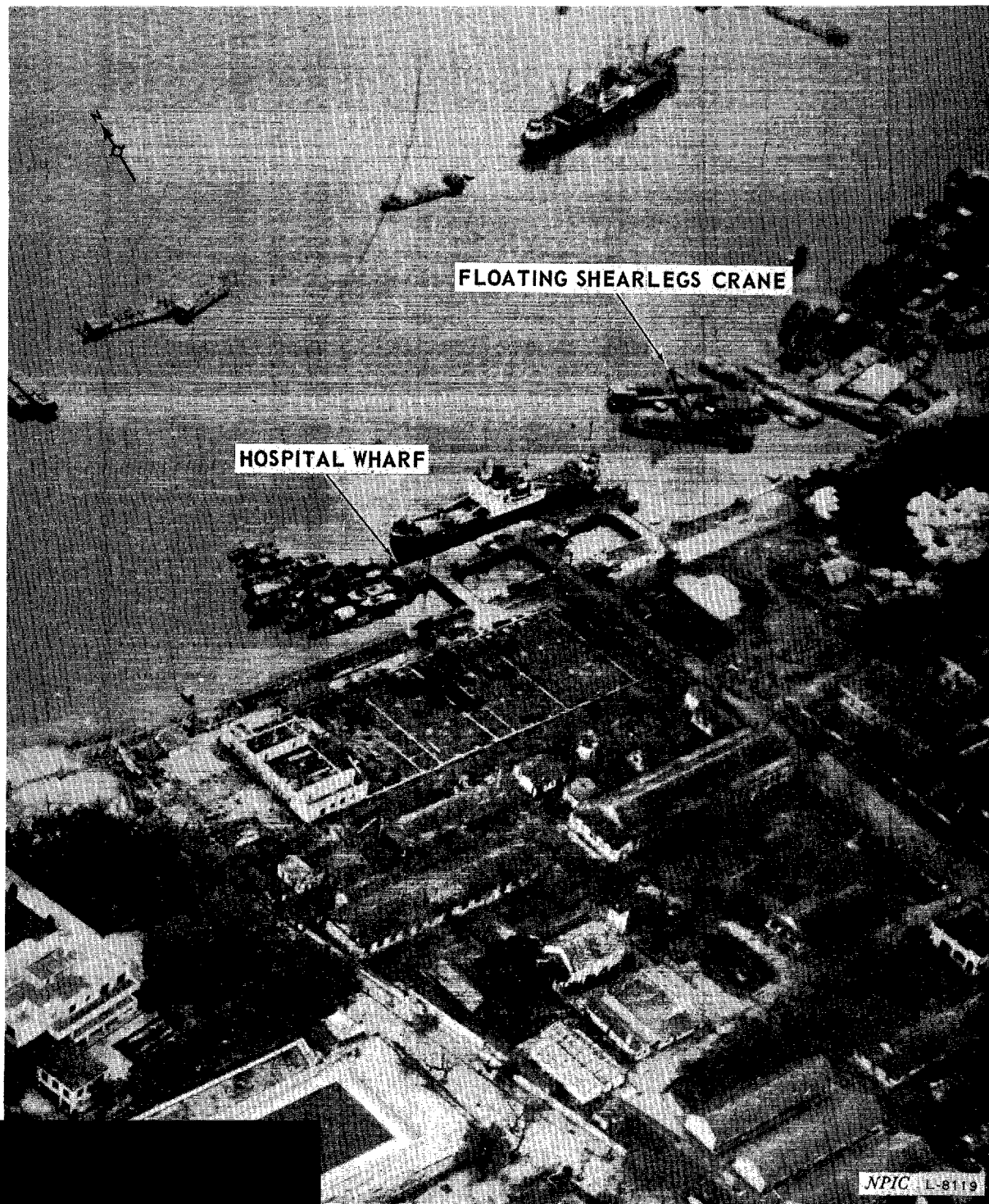
25X1D

NAME: HOSPITAL WHARF, HAI PHONG

LOCATION: IN HAI PHONG, ON THE SOUTH BANK OF THE CUA CAM (RIVER)

25X1D DESCRIPTION: ROAD-SERVED WHARF, [REDACTED] WILL BERTH 1 LARGE VESSEL AND
25X1D IS EQUIPPED WITH LIGHTS. PHOTOGRAPHY OF [REDACTED] REVEALS 1 FLOATING
SHEARLEGS CRANE AND 1 CHICOM FREIGHTER AT THE WHARF.

25X1D PHOTO REFERENCES: [REDACTED]



HOSPITAL WHARF, HAI PHONG, NORTH VIETNAM

BE NUMBER

UTM COORDINATES

205200N 1064140E
GEOGRAPHIC COORDINATES

25X1D

NAME: CHAMBER OF COMMERCE WHARVES, HAI PHONG

LOCATION: IN HAI PHONG, ON SOUTH BANK OF THE CUA CAM (RIVER)

DESCRIPTION: CHAMBER OF COMMERCE WHARF NO. 1, [REDACTED] WILL BERTH 5 LARGE VESSELS; CHAMBER OF COMMERCE WHARF NO. 2, 460 FEET LONG, WILL BERTH 1 LARGE VESSEL. BOTH ARE RAIL- AND ROAD-SERVED AND EQUIPPED WITH LIGHTS AND WATER. WAREHOUSE FACILITIES INCLUDE APPROXIMATELY 343,995 SQ. FT. OF FLOOR SPACE AND OPEN STORAGE AREAS TOTALING AT LEAST 644,000 SQ. FT.

25X1D

PHOTO REFERENCES:

25X1D



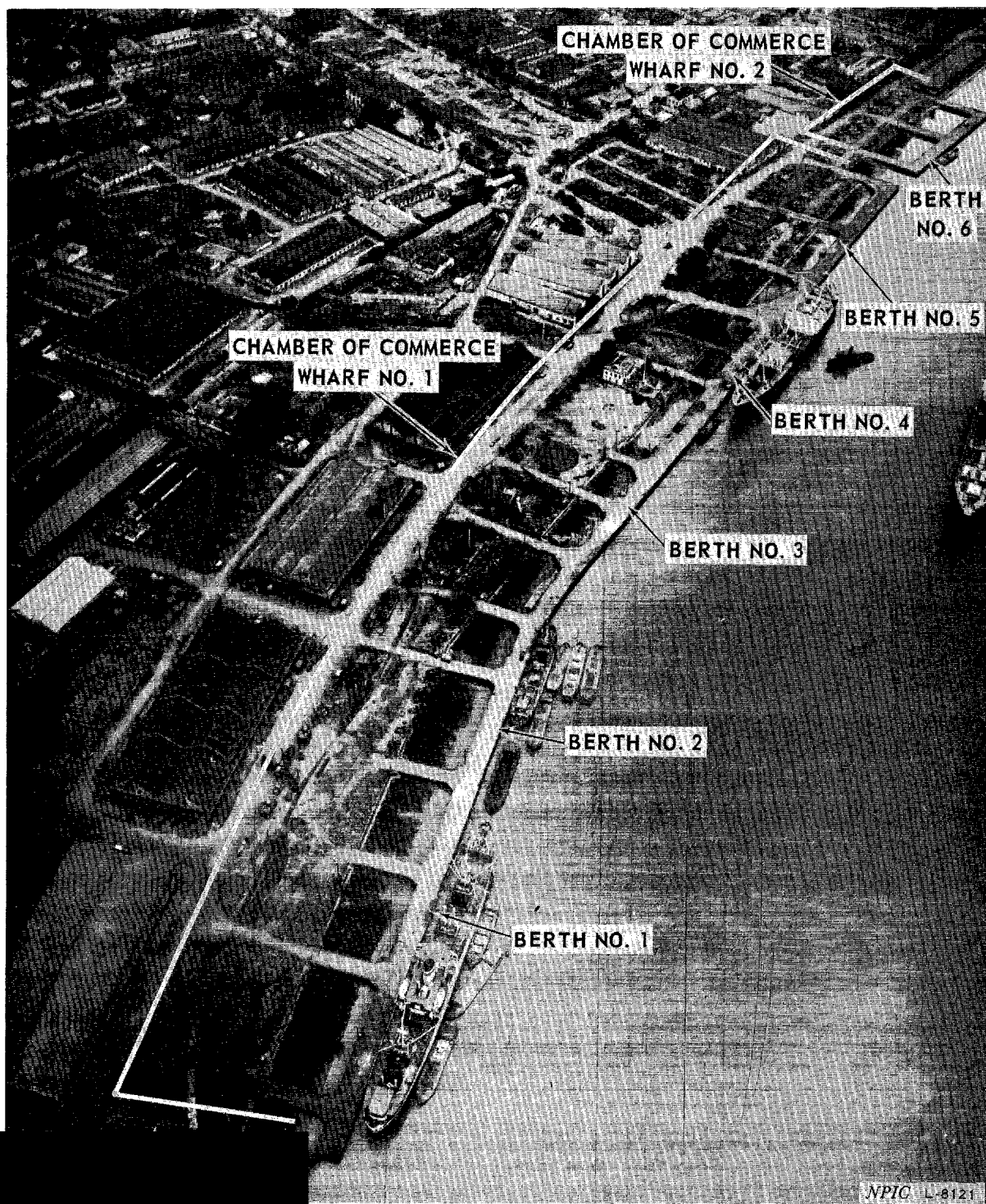
25X1D

CHAMBER OF COMMERCE WHARVES, HAI PHONG, NORTH VIETNAM

CONFIDENTIAL

25X1C

R-90/67



CHAMBER OF COMMERCE WHARVES, HAI PHONG, NORTH VIETNAM

CONFIDENTIAL

25X1C

NO FOREIGN DISSEM

25X1A

BE NUMBER

UTM COORDINATES

205224N 1064148E
GEOGRAPHIC COORDINATES

25X1D

NAME: HAI PHONG SHIPYARD NORTH

LOCATION: ON THE NORTH BANK OF THE CUA CAM (RIVER), OPPOSITE THE MAIN PORT AREA

DESCRIPTION: FACILITY CONSISTS OF 2 GRAVING DOCKS AND 1 BOAT BASIN ON THE TIDAL FLATS. A PROBABLE SHOP BUILDING IS IMMEDIATELY NORTH.

25X1D

25X1D

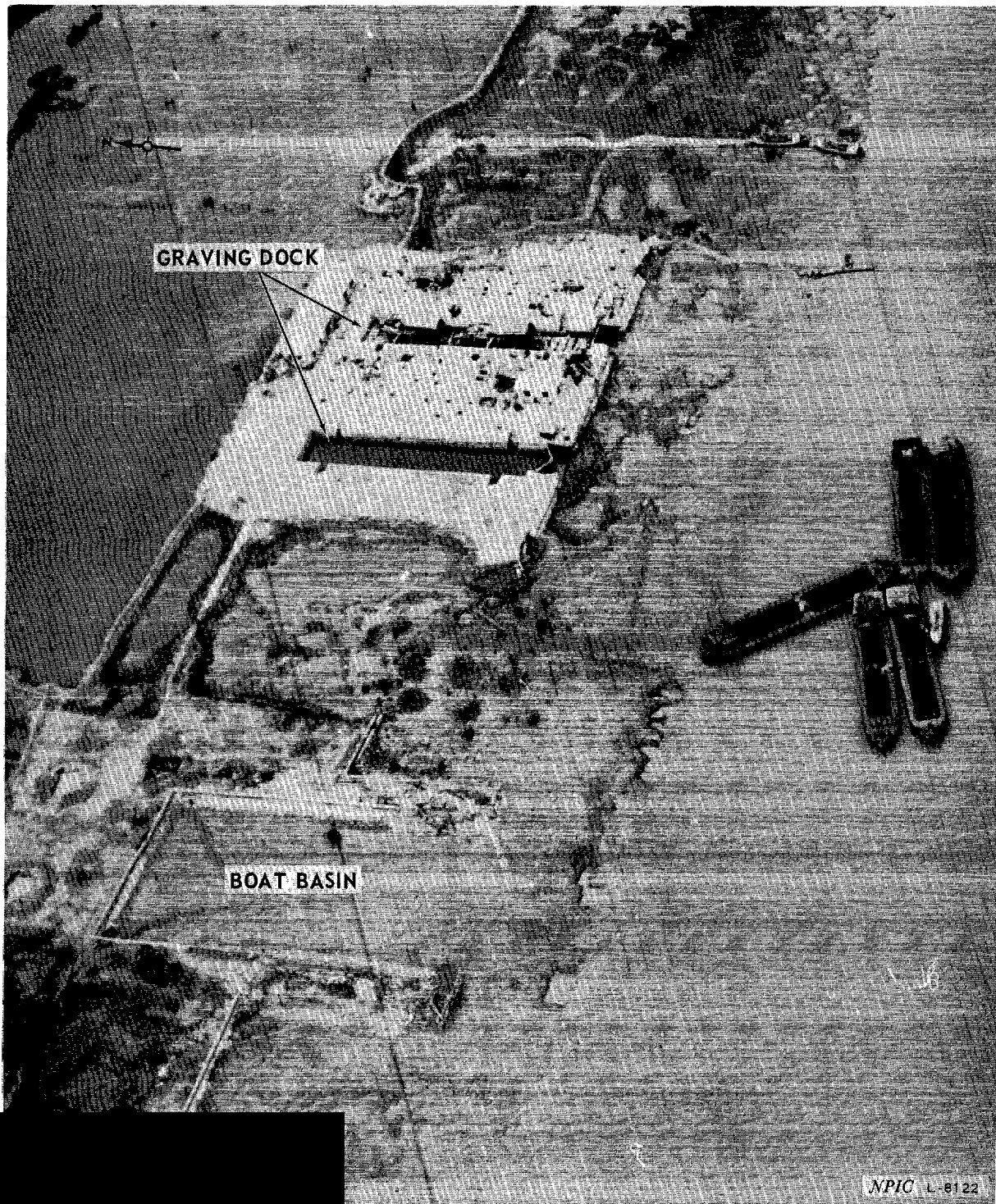
PHOTO REFERENCES:

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25X1C

R-90/67

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25X1D

HAI PHONG SHIPYARD NORTH, NORTH VIETNAM

CONFIDENTIAL

25X1C

NO FOREIGN DISSEM

BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
		205208N 1064155E
		205217N 1064205E

25X1D

NAME: HAI PHONG COAL AND ICE PLANT WHARVES

LOCATION: COAL WHARF IS IMMEDIATELY EAST OF THE CHAMBER OF COMMERCE WHARVES

AT UTM ICE PLANT WHARF IS 300 YDS EAST OF THE COAL WHARF AT

DESCRIPTION: THE COAL WHARF (WHERE COAL IS TRANSSHIPPED FROM BARGE TO RAIL CAR) IS 420-FT LONG. A BREASTING PLATFORM AND A WHARF ARE ALSO

IN THE COAL TRANSSHIPMENT AREA. THE ROAD-SERVED ICE PLANT WHARF IS

LONG. TWO PIERS USUALLY ASSOCIATED WITH NAVAL CRAFT ARE ALSO SHOWN ON

THE PHOTO. THE PATROL BOAT PIER IS PART OF A SMALL NAVAL FACILITY IN THE

WESTERN PORTION OF HAI PHONG SHIPYARD NO. 1 (BE NO

25X1D

25X1D

25X1D

25X1A

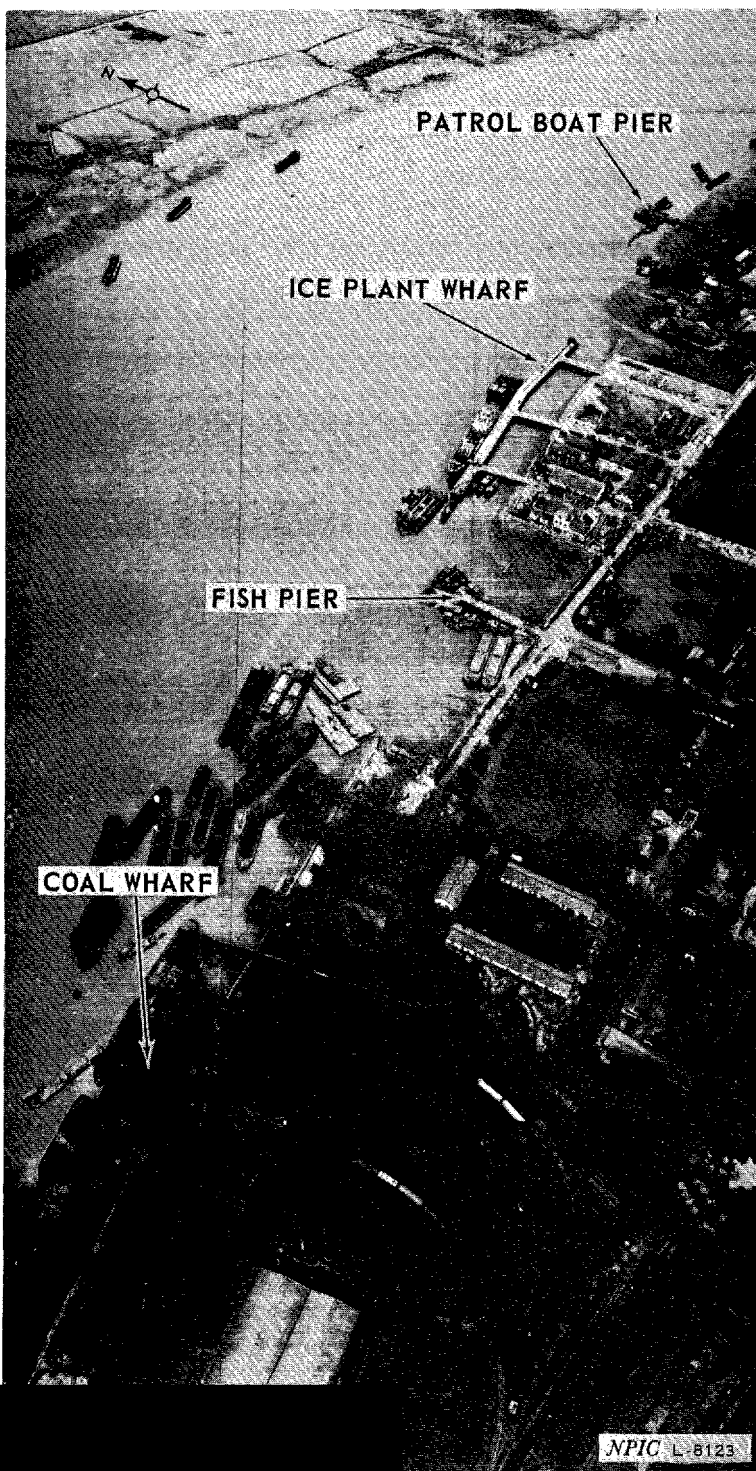
PHOTO REFERENCES:

25X1D

CONFIDENTIAL

25X1C

R-90/67



25X1D

HAI PHONG COAL AND ICE PLANT WHARVES, NORTH VIETNAM.

CONFIDENTIAL

NO FOREIGN DISSEM

25X1A

BE NUMBER

UTM COORDINATES

205120N 1064215E
GEOGRAPHIC COORDINATES

25X1D

NAME: HAI PHONG SHIP REPAIR YARD NO. 1

LOCATION: ON THE CUA CAM (RIVER)

DESCRIPTION: SIGNIFICANT BARGE BUILDING AND REPAIR YARD CONSISTS OF 2
MARINE RAILWAYS, A BOATHOUSE WITH 2 SMALL MARINE RAILWAYS, AND A TRANS-
VERSER LARGE ENOUGH FOR 5 BARGES.

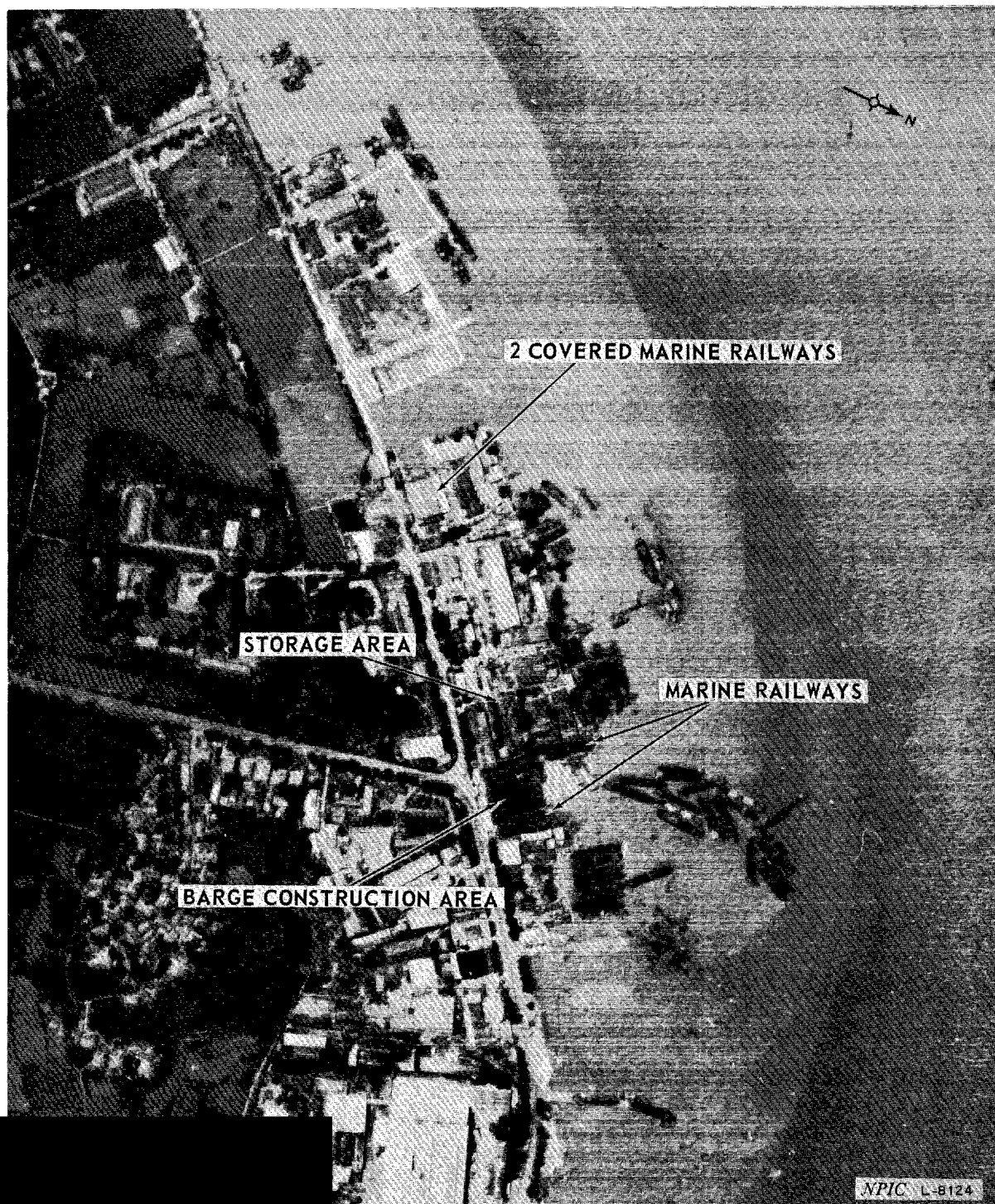
25X1D

PHOTO REFERENCES:

CONFIDENTIAL

25X1C

R-90/67



HAI PHONG SHIP REPAIR YARD NO. 1, NORTH VIETNAM

CONFIDENTIAL

25X1C

NO FOREIGN DISSEM

25X1A

BE NUMBER

UTM COORDINATES

205121N 1064032E
GEOGRAPHIC COORDINATES

25X1D

NAME: HAI PHONG SHIP REPAIR YARD NO. 3 SAUVAGE

LOCATION: IN HAI PHONG, AT THE CONFLUENCE OF THE SONG DAO HA LY AND SONG
TRAM BAC (RIVERS)

DESCRIPTION: YARD CONTAINS 3 GRAVING DOCKS (MEASURING FROM WEST TO EAST

25X1D
25X1D

1 LAUNCHING BASIN
AT THE MOUTH, INNER WIDTH , 4 FLOATING FITTING OUT WHARVES, AND 4
PROBABLE SHOPS. PHOTOGRAPHY OF REVEALS 1 SL-1, 1 COASTING BARGE,
AND 1 POSSIBLE TUGBOAT IN THE GRAVING DOCKS.

25X1D

25X1D

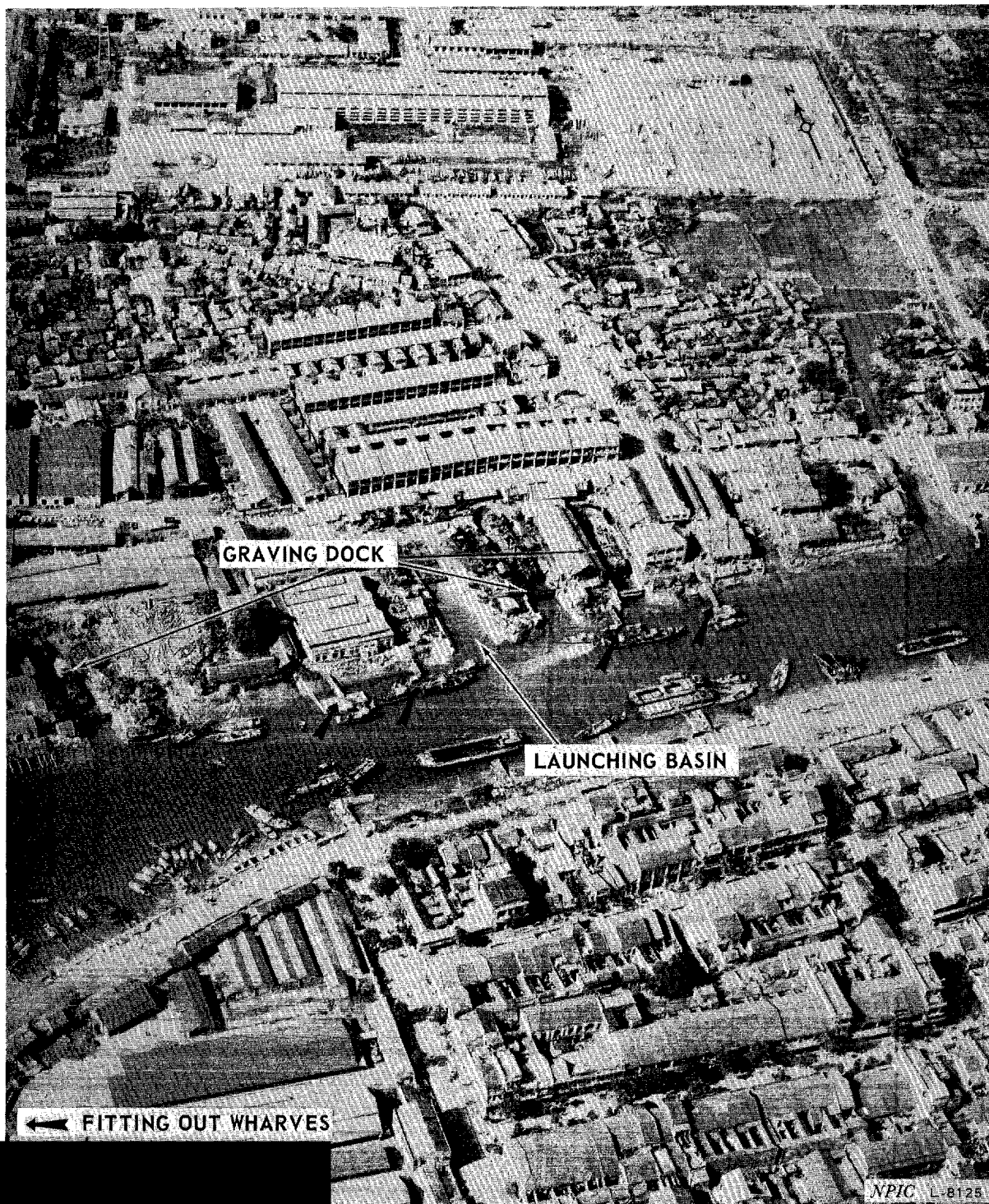
25X1D

PHOTO REFERENCES:

CONFIDENTIAL

25X1C

R-90/67



25X1D

HAI PHONG SHIP REPAIR YARD NO. 3 SAUVAGE, NORTH VIETNAM

CONFIDENTIAL

NO FOREIGN DISSEM

CONFIDENTIAL

25X1C

R-90/67

NO FOREIGN DISSEM

NO FOREIGN DISSEM

25X1A

[REDACTED]

BE NUMBER

[REDACTED]

UTM COORDINATES

205113N 1064016E
GEOGRAPHIC COORDINATES

25X1D

NAME: HAI PHONG SHIP REPAIR YARD NO. 2 SACRIC

LOCATION: ON THE WEST BANK OF THE SONG TRAM BAC (RIVER)

25X1D

DESCRIPTION: YARD CONSISTS OF 2 GRAVING DOCKS (MEASURING FROM THE LAUNCHING BASIN [REDACTED] AND A 420 X 90 FT LAUNCHING BASIN. THE YARD APPARENTLY IS ALSO ENGAGED IN BARGE BUILDING.

25X1D

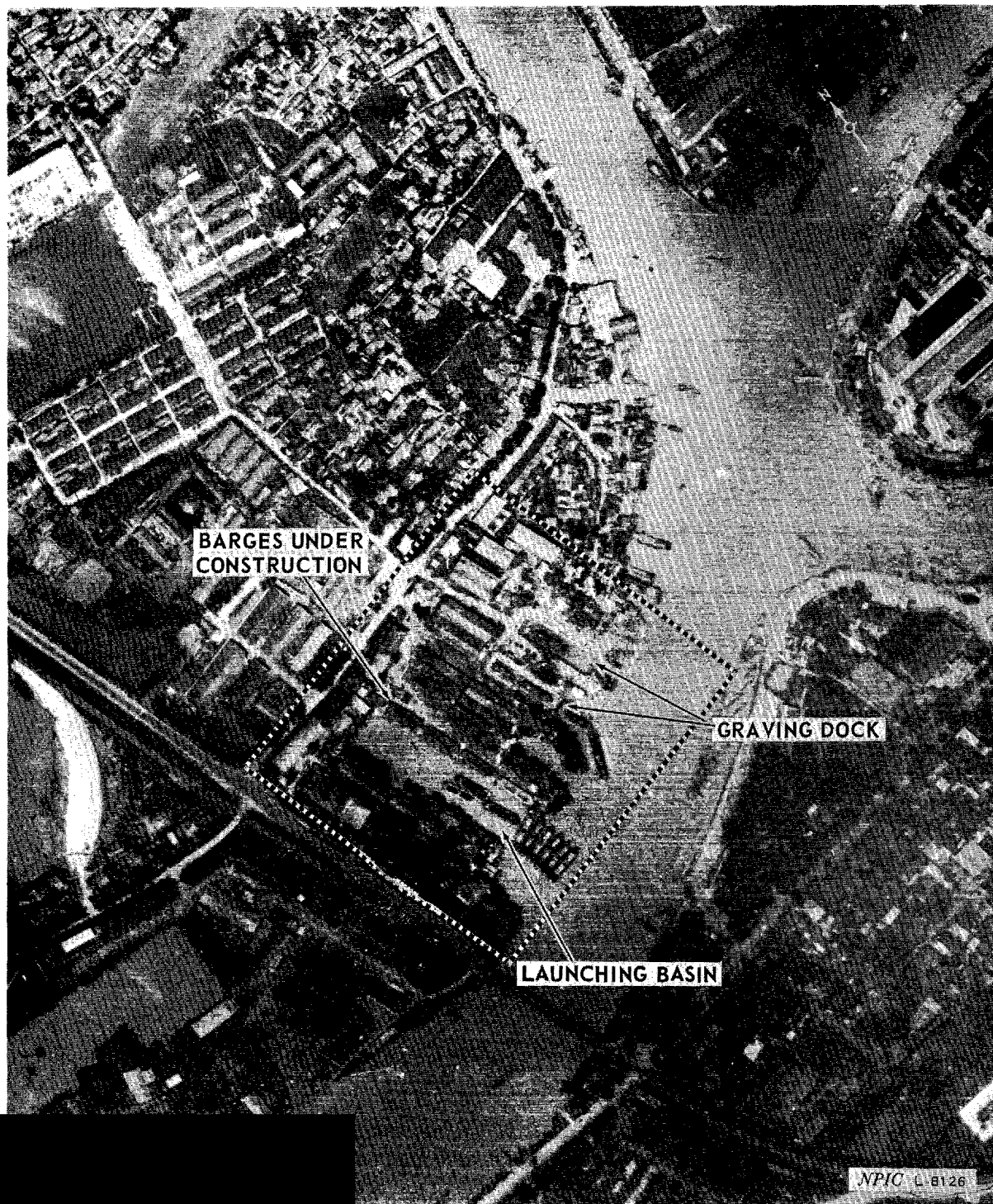
PHOTO REFERENCES:

[REDACTED]

CONFIDENTIAL

25X1C

NO FOREIGN DISSEM



HAI PHONG SHIP REPAIR YARD NO. 2 SACRIC, NORTH VIETNAM

25X1A

BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
[REDACTED]	[REDACTED]	205110N 1063951E

25X1D

NAME: HAI PHONG SHIPYARD WEST

LOCATION: ON THE WEST BANK OF THE SONG TRAM BAC (RIVER)

25X1D

DESCRIPTION: YARD CONSISTS OF 2 GRAVING DOCKS (ONE [REDACTED] THE OTHER [REDACTED], 2 COVERED BUILDING WAYS, A LAUNCHING BASIN, AND 16 SUPPORT BUILDINGS (8 SHOWN ON PHOTO). ON PHOTOGRAPHY OF [REDACTED] 7 SELF-PROPELLED RIVER BARGES, 3 VEHICLE FERRIES, A VESSEL UNDER CONSTRUCTION, AND 9 SMALL RIVER CRAFT ARE OBSERVED.

25X1D

25X1D

25X1D

PHOTO REFERENCES: [REDACTED]

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HAI PHONG SHIPYARD WEST, NORTH VIETNAM

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25X1C

R-90/67
MAY 1967

NO FOREIGN DISSEM

25X1A

BE NUMBER

UTM COORDINATES

205052N 1063954E
GEOGRAPHIC COORDINATES

25X1D

NAME: HAI PHONG SHIPYARD VINH KHE

LOCATION: ON THE WEST BANK OF THE SONG DAO LACH TRAY (RIVER)

DESCRIPTION: SMALL SHIP BUILDING FACILITY CONSISTS OF AT LEAST 2 MARINE RAILWAYS. PHOTOGRAPHY OF [REDACTED] REVEALS A FERRY BOAT IN A LATE STAGE OF CONSTRUCTION AND A PARTIALLY COMPLETED BARGE ON THE MARINE RAILWAYS.

25X1D

25X1D

PHOTO REFERENCES: [REDACTED]

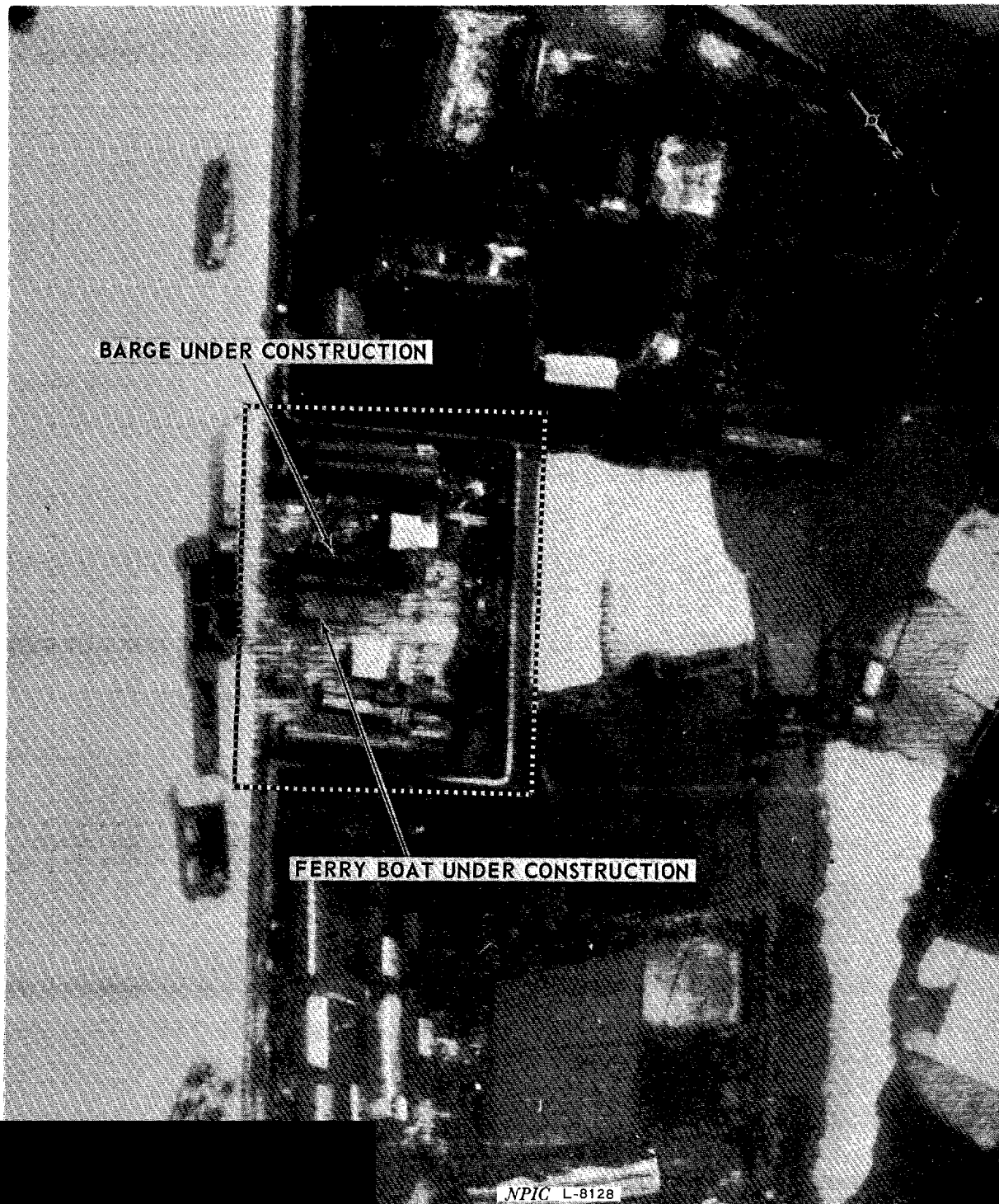
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NO FOREIGN DISSEM

CONFIDENTIAL

25X1C

R-90/67



HAI PHONG SHIPYARD VINH KHE, NORTH VIETNAM

CONFIDENTIAL

NO FOREIGN DISSEM

CONFIDENTIAL

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R-90/67
0111917

NO FOREIGN DISSEM

BE NUMBER

UTM COORDINATES

205031N 1063940E
GEOGRAPHIC COORDINATES

25X1D

NAME: AN DUONG SHIPYARD

LOCATION: ON THE NORTH BANK OF THE LACH TRAY (STREAM)

DESCRIPTION: FACILITY CONSISTS 2 WET DOCKS (THE EASTERN ONE MEASURING [REDACTED] FT) AND 1 TIDAL DRYDOCK. PHOTOGRAPHY OF [REDACTED] REVEALS 3 FERRY BOATS IN ONE WET DOCK AND 3 SMALL CRAFT ON BLOCKS IN THE TIDAL DRYDOCK.

25X1D

25X1D

PHOTO REFERENCES:

25X1D

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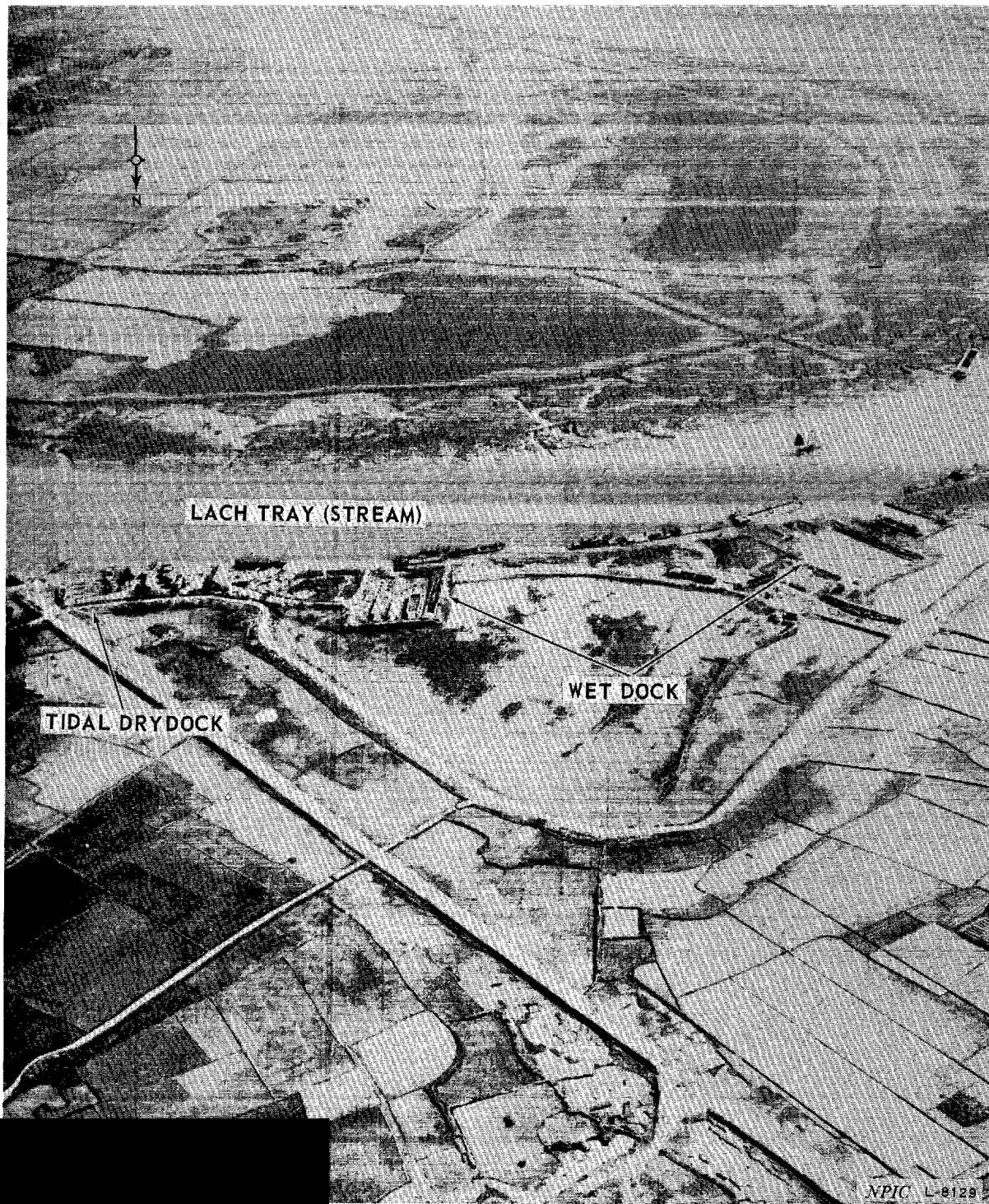
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25X1D

AN DUONG SHIPYARD, NORTH VIETNAM

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HAI PHONG PORT AREA

1. Cam Lo Transshipment Point
2. Thuong Ly Boat Repair Yard
3. Hai Phong Shipyard No. 4 Dancette
4. Hai Phong Naval Base
5. Hospital Wharf, Hai Phong
6. Chamber of Commerce Wharves, Hai Phong
7. Hai Phong Shipyard North
8. Hai Phong Coal and Ice Plant Wharves
9. Hai Phong Ship Repair Yard No. 1
10. Hai Phong Ship Repair Yard No. 3 Sauvage
11. Hai Phong Ship Repair Yard No. 2 Sacrie
12. Hai Phong Shipyard West
13. Hai Phong Shipyard Vinh Khe
14. An Duong Shipyard



25X1D

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D

SECTION D MISCELLANEOUS

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SECTION D

Large numbers of river and coastal vessels are seen throughout southern and central North Vietnam. The most numerous of these vessels are the small river sampans observed in the rivers and canals of the country (Figure 1D). These seemingly insignificant vessels may appear to be unimportant in the train of supply that must be maintained to keep the North Vietnamese Army supplied in the south; however, estimating the cargo capacity of a 40-ft sampan with 5 ft. 6 in. beam to be approximately 3 metric tons, the 50 camouflaged sampans seen in the Khe Bo area on [REDACTED] could have been carrying as much as 150 metric tons of supplies-- the equivalent cargo of 30 ZIL-151 trucks. The poor state of the road net, especially in the southern part of North Vietnam, and the scarcity of POL makes the numerous small river sampans a significant means of supplying the North Vietnamese units in the south.

25X1D

While small river sampans are predominant in the southern part of North Vietnam, the most important means of water transportation in the north central portion of the country appears to be the dry cargo barge. Barges are being built at small assembly yards such as the one at Phap Co (Page A24) and at large yards like the one in Thai Nguyen Iron and Steel Combine (Page A52). Other barges are built abroad and shipped in sections to North Vietnam like those seen abroad the Soviet merchant vessel, Kandalakshales (Figure 2D). The cargo barges vary in size from approximately 35 ft, such as those under construction at Hung Yen (Page A56), to the 135-ft barges seen at Hai Phong Shipyard No. 4 Dancette (Figure 3D). Many barges are self propelled like the coasting barge shown in Figure 4D. This vessel is approximately 95 ft long, has 2 cargo hatches, and appears to have a steel hull. At least 4 barges of this class was seen at Quang Khe during the Tet Truce period [REDACTED] supply operation. Others are dumb barges (without engines) and must be towed or pushed such as those shown in Figure 5D. This type of barge was seen in the barge building area of the Thai Nguyen Iron and Steel Combine (Page A52) and appeared again near Quang Khe during the Tet Truce supply operation.

25X1D

Although not as numerous as the dry cargo barges, the POL barges are extremely important to the economy of the country. Since the air strikes on the Hai Phong POL terminal rendered that installation useless, the incoming tankers have had to anchor at one of the two POL anchorages. From there the POL has to be transported by lighter to shore. The POL barges are of two types: one (Figure 6D) is approximately [REDACTED] long with a beam of 25 ft; the other (Figure 7D) is approximately [REDACTED] with a beam of approximately [REDACTED]. Another possible POL barge, observed in an area where POL barges previously have been seen, appears longer, but no measurements are available for this vessel. Heavy camouflage covers the deck. POL may also be shipped in sampans especially adapted for carrying bulk POL, such as the one shown in Figure 8D. This [REDACTED]

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A potentially important cargo carrier in North Vietnam is the small logistics ships (SL-1-class) shown in Figure 9D. The ship measures approximately 120 ft long, has a 20-ft beam, and a cargo hatch measuring approximately [REDACTED]. It is armed with 2 small caliber guns. This class of ship was engaged in moving supplies southward during the Tet Truce period. At least 14 ships of this type were photographed while operating in waters near Quang Khe in the southern panhandle of North Vietnam. On [REDACTED] 13 were observed while in port at Hai Phong. Only 3 were seen at Hai Phong on [REDACTED]. 11 ships of this type were seen at 21-18-47N 106-27-50E, 29 nm NNW of Hai Phong, and 10.5 nm SE of the large Kep Barracks and Storage Area. Eight SL-1-class cargo vessels were seen in port at Hai Phong on [REDACTED] and 16 were observed again at 21-18-47N 106-27-50E on [REDACTED]. Although these vessels are not yet known to be North Vietnamese, the addition of this size of vessel to the seven smaller types of coastal cargo vessels already in the North Vietnamese inventory would greatly increase the capacity of the coastal cargo fleet.

Silting, a major problem in North Vietnam which has previously been mentioned in this publication, is combatted with several types of dredges. At least one large bucket dredge, believed to be of Chinese origin, has been seen in the Hai Phong area for several years. A bucket dredge [REDACTED] superstructure is shown in Figure 10D. This vessel, or one of the same class, was observed on [REDACTED] near the Ha Tou boat repair facility. This large vessel is too cumbersome to navigate some of the small canals and rivers in the delta area; the Soviet-built ZRS-1-class suction dredges (Figure 11D) are used for these areas. At least 10 of these dredges are known to be in North Vietnam.

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FIGURE 1D. RIVER SAMPANS SIMILAR TO THOSE IN THE SOUTHERN PORTION OF NORTH VIETNAM.

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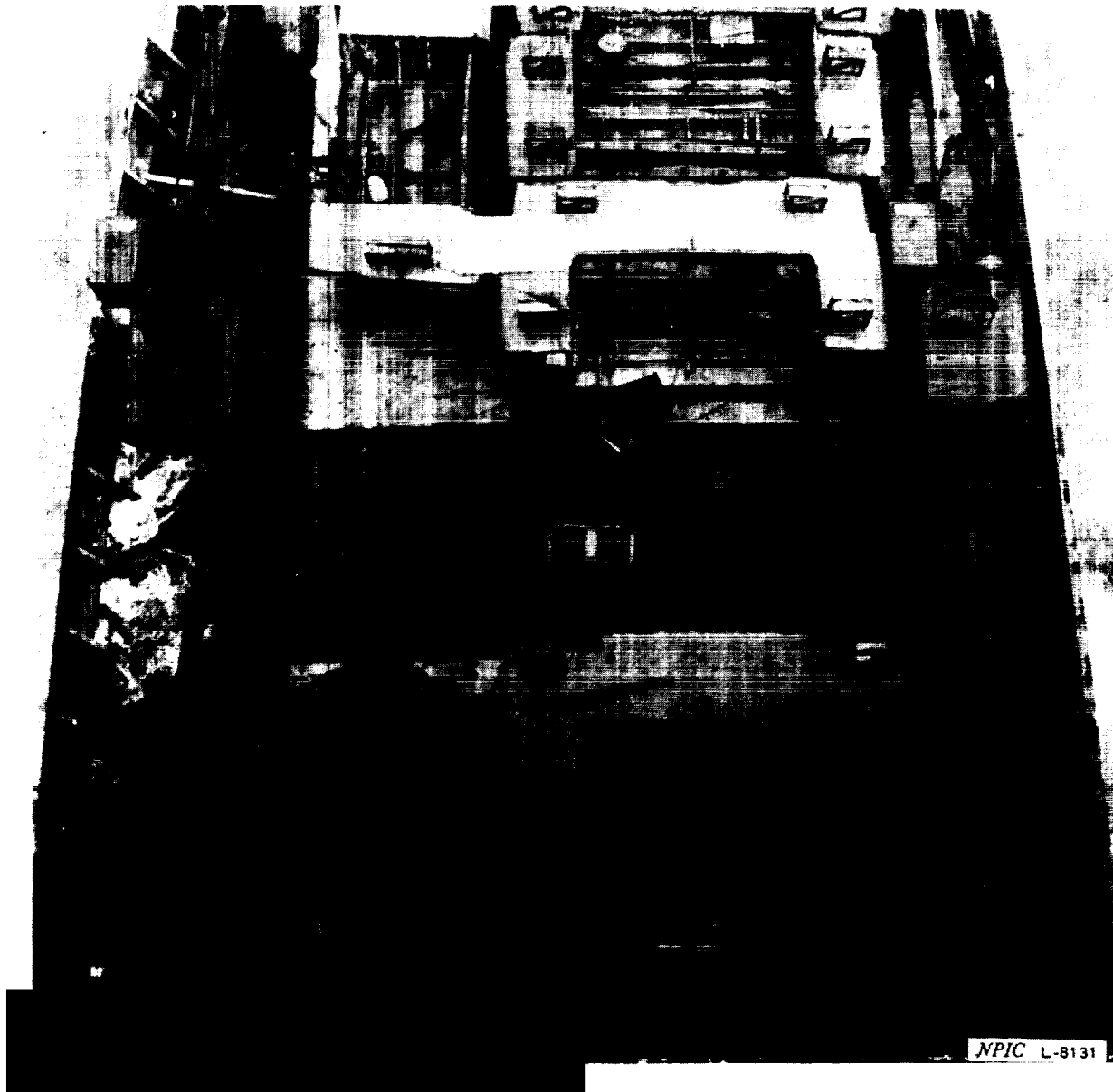


FIGURE 2D. BARGE SECTIONS INBOUND TO HAI PHONG ABOARD THE SOVIET SHIP KANDALAKSHALES, IN THE GULF OF TONKIN AT 19-13N 107-42E.

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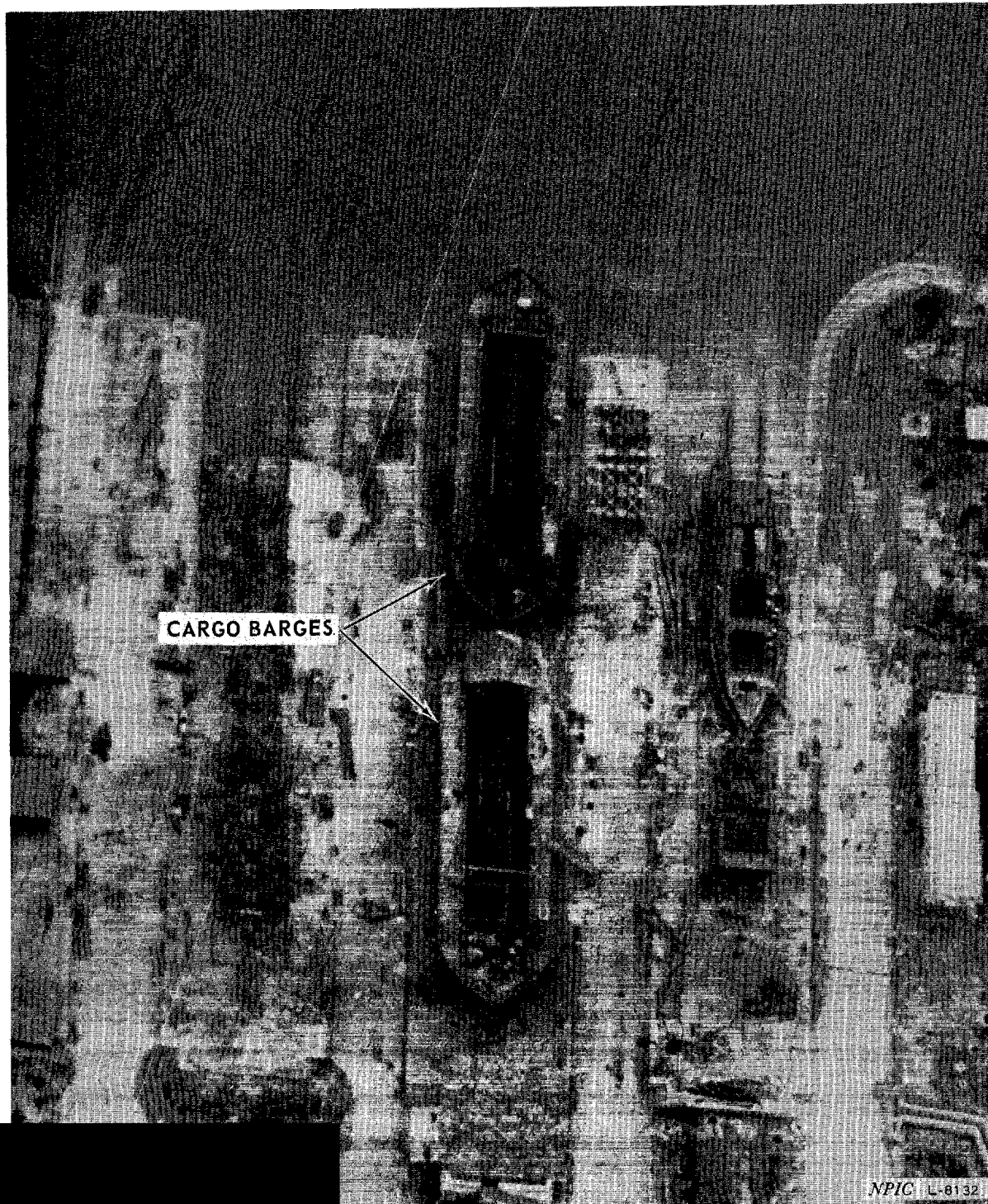


FIGURE 3D. LARGE CARGO BARGES ON MARINE RAILWAY
AT HAI PHONG SHIPYARD NO. 4 DANCETTE.



25X1D

FIGURE 4D. SELF-PROPELLED COASTING BARGE APPROXIMATELY 5NM
OFF THE COAST AT 17-51N 106-34E.

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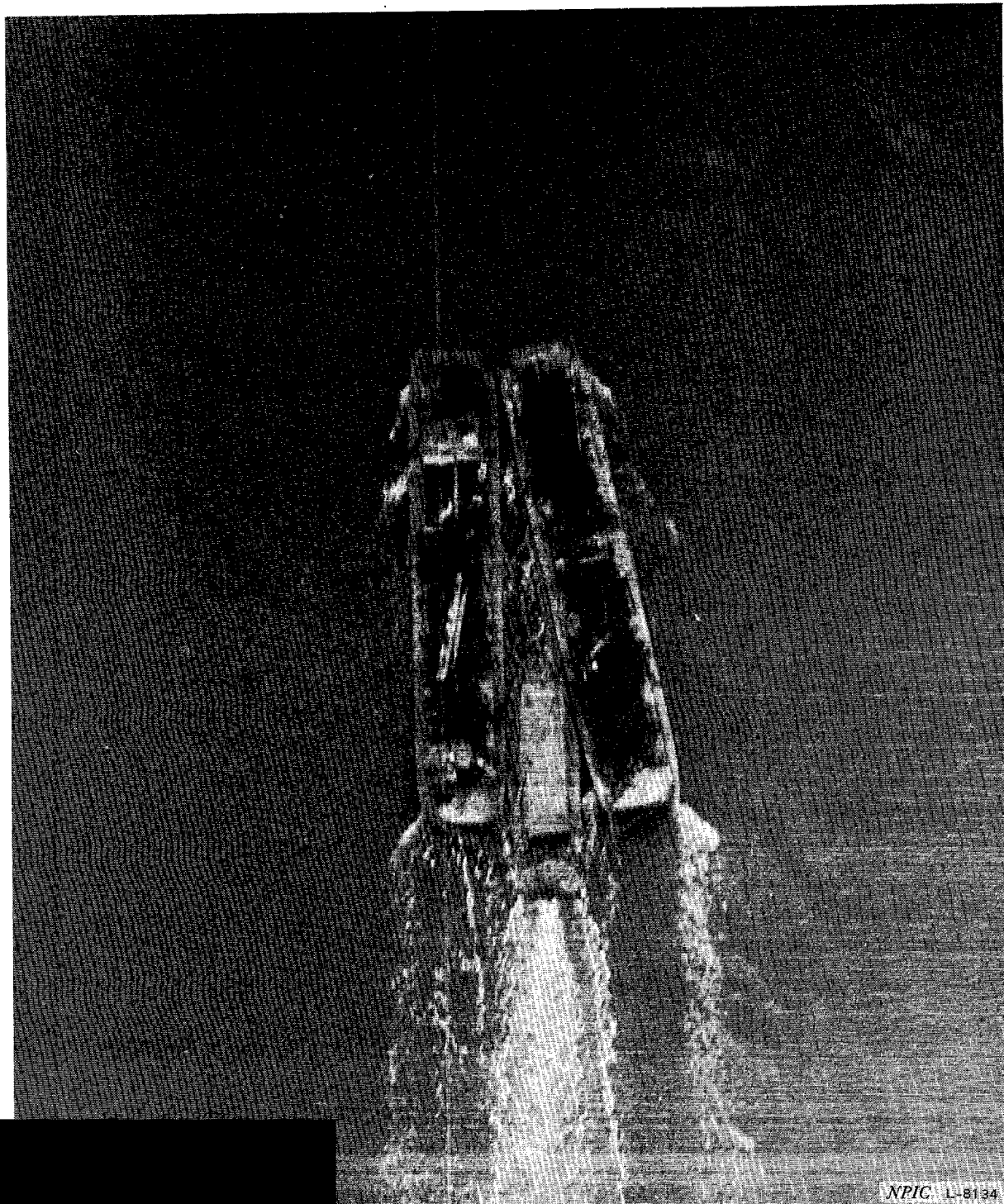


FIGURE 5D. SUPPLY BARGES HEADING SOUTHWEST AT 17-55N 106-31E.

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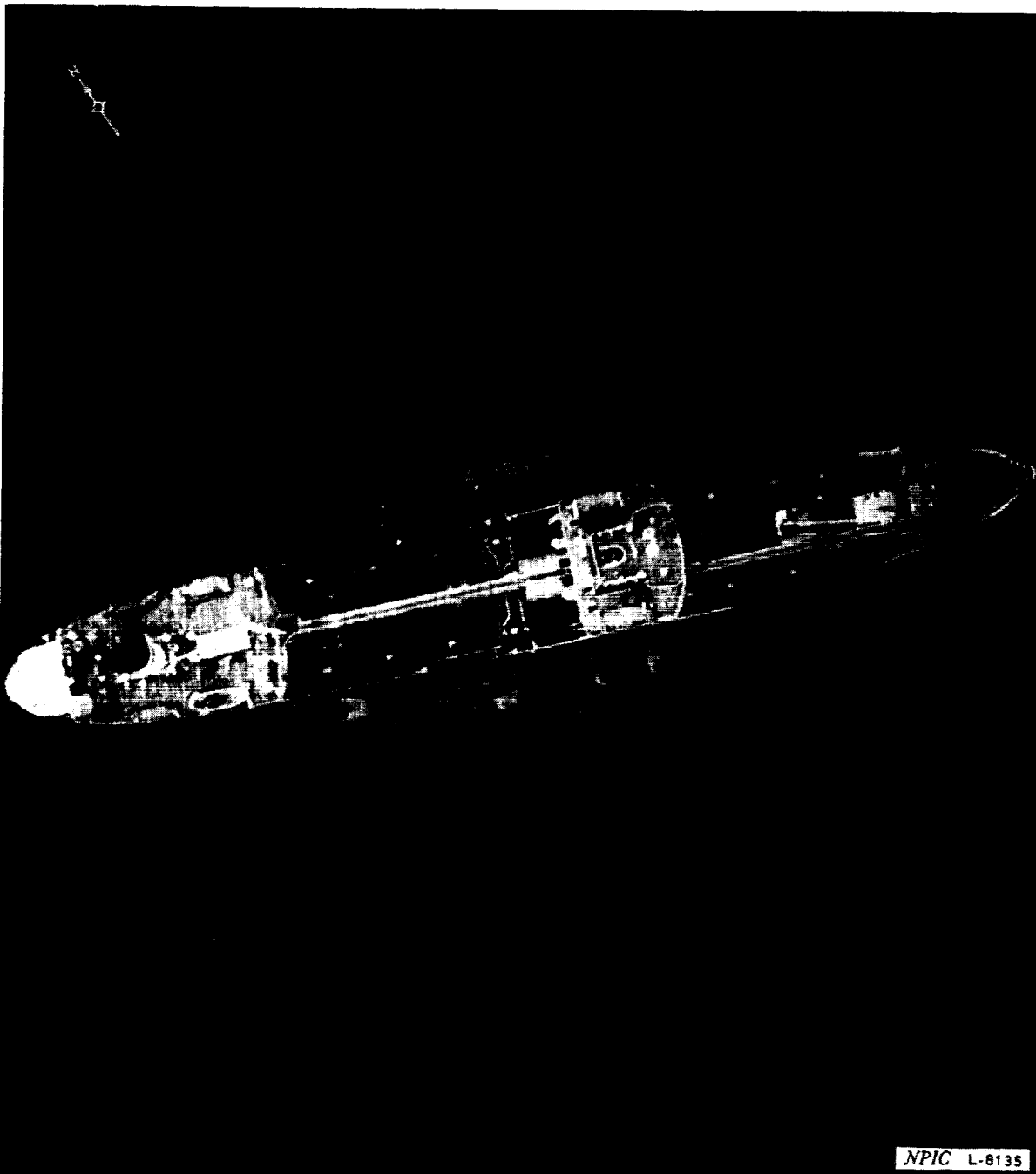


FIGURE 6D. SOVIET TANKER WITH MOTORIZED POL BARGES AT 20-51N 107-07E.

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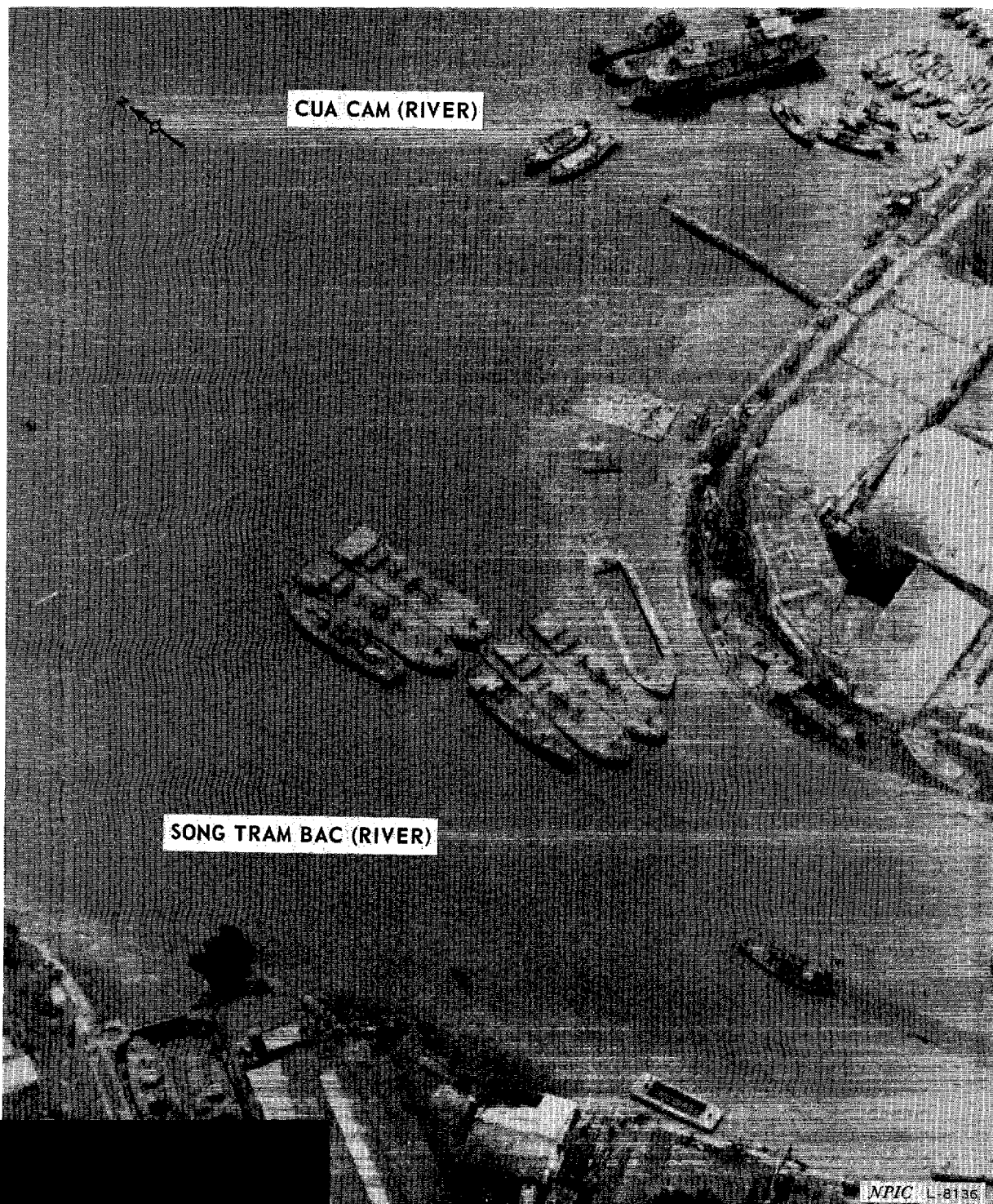


FIGURE 7D. POL BARGES AT THE MOUTH OF THE SONG TRAM BAC, HAI PHONG, NORTH VIETNAM

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FIGURE 8D. POL TANKS IN SAMPAN ON NE EDGE ON NINH BINH AT 21-15N 105-593.

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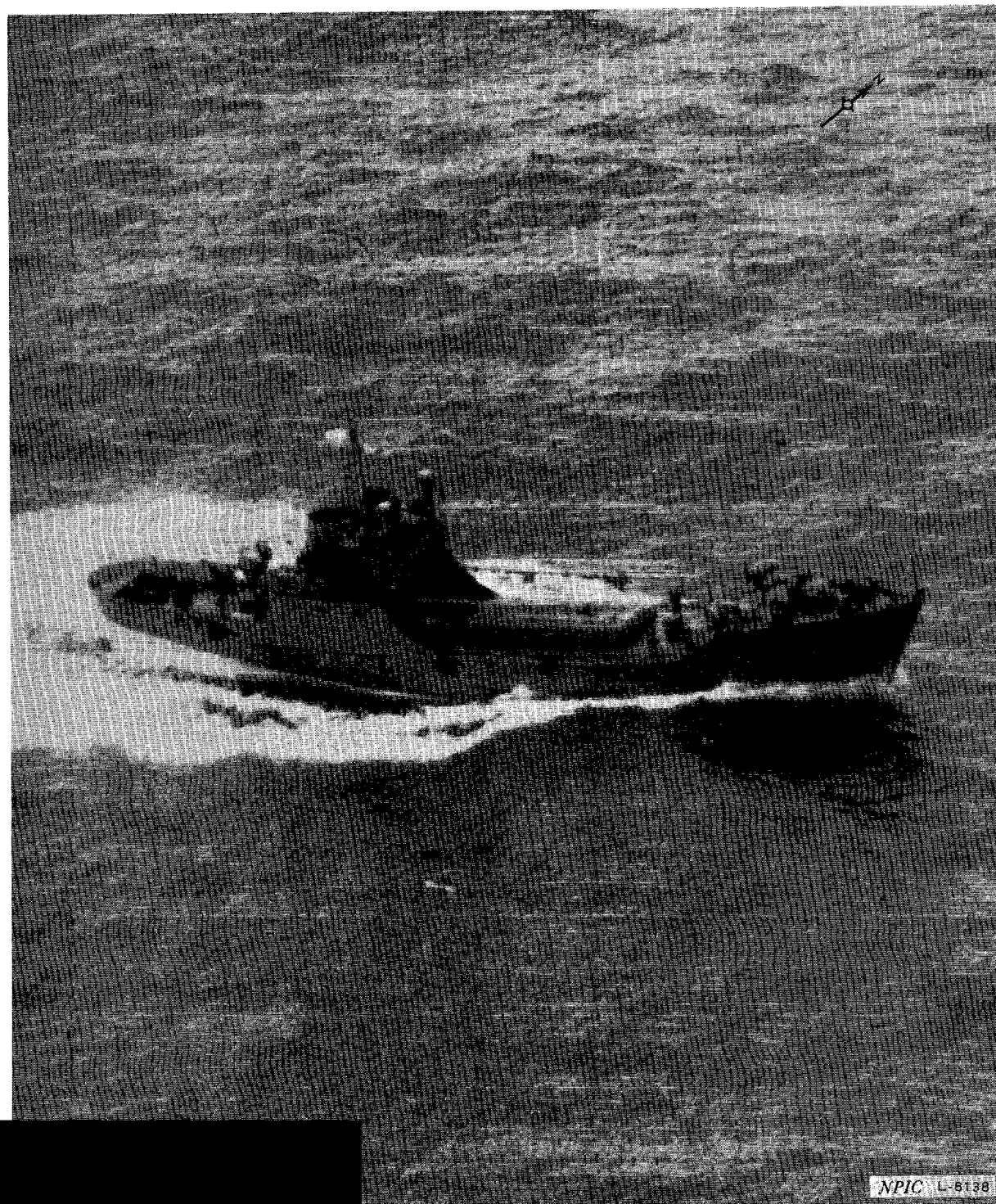


FIGURE 9D. SL-1-CLASS CARGO VESSEL OFF THE COAST OF NORTH VIETNAM AT 19-50N 106-17E.



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FIGURE 10D. CAMOUFLAGED BUCKET DREDGE IN THE SONG VAN UC (RIVER) AT 20-50N 106-29E.

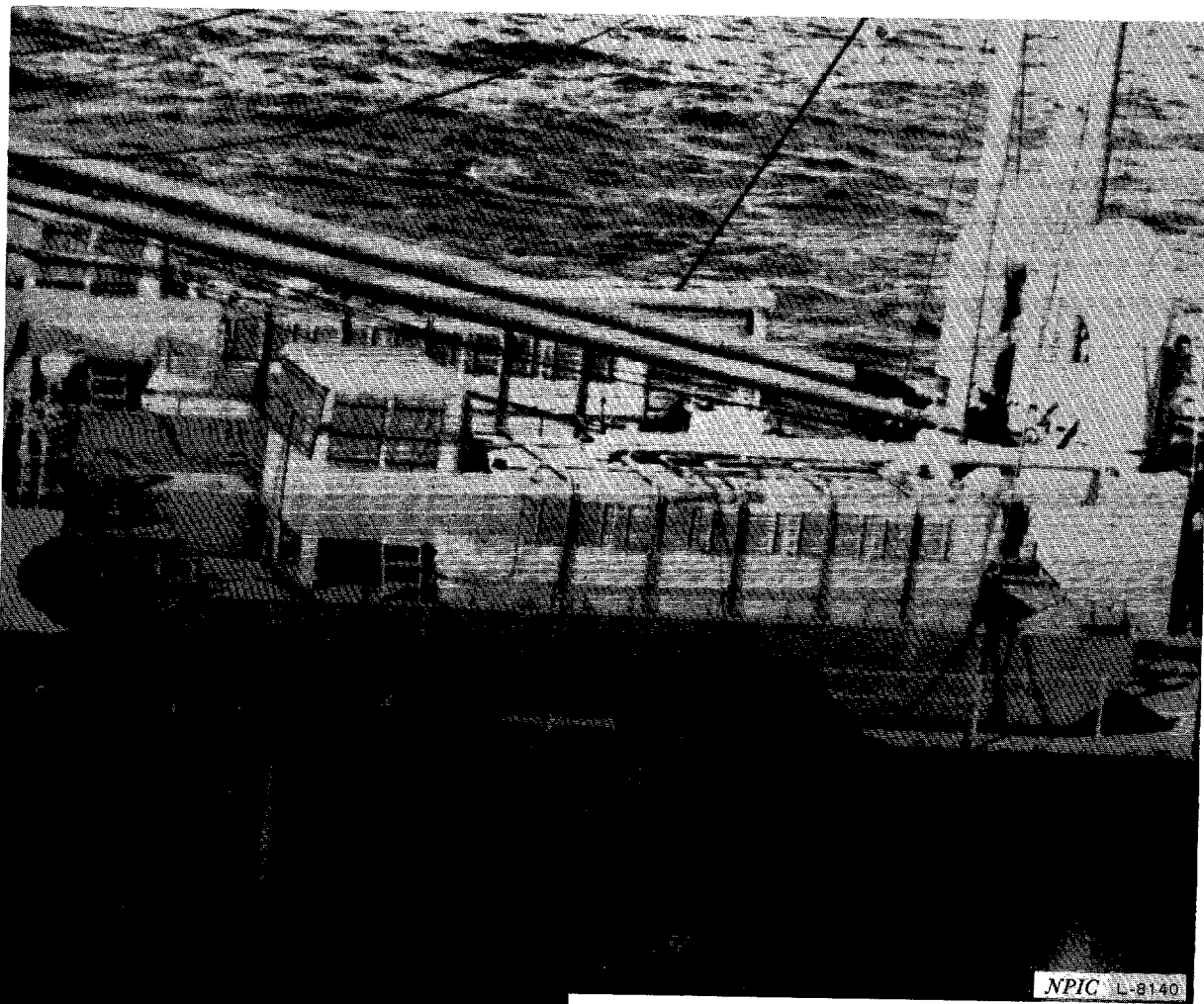


FIGURE 11D. SOVIET-BUILT ZRS-1-CLASS SUCTION DREDGE INBOUND TO HAI PHONG.

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